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Pullman Kellogg
Houston, TX

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16. ABSTRACT

This volume is the product of an information-gathering effort relating to coal conversion process streams. Available and developing control technology has been evaluated in view of the requirements of present and proposed federal, state, regional, and international environmental standards. The study indicates that it appears possible to evolve technology to reduce each component of each process stream to an environmentally acceptable level. It also indicates that such an approach would be costly and difficult to execute. Because all coal conversion processes are net users of water, liquid effluents need be treated only for recycling within the process, thus achieving essentially zero discharge. With available technology, gaseous emissions can be controlled to meet present environmental standards, particulates can be controlled or eliminated, and disposal of solid wastes can be managed to avoid deleterious environmental effects. This volume (III) includes both a program for economic analysis of control technology and the appendix.

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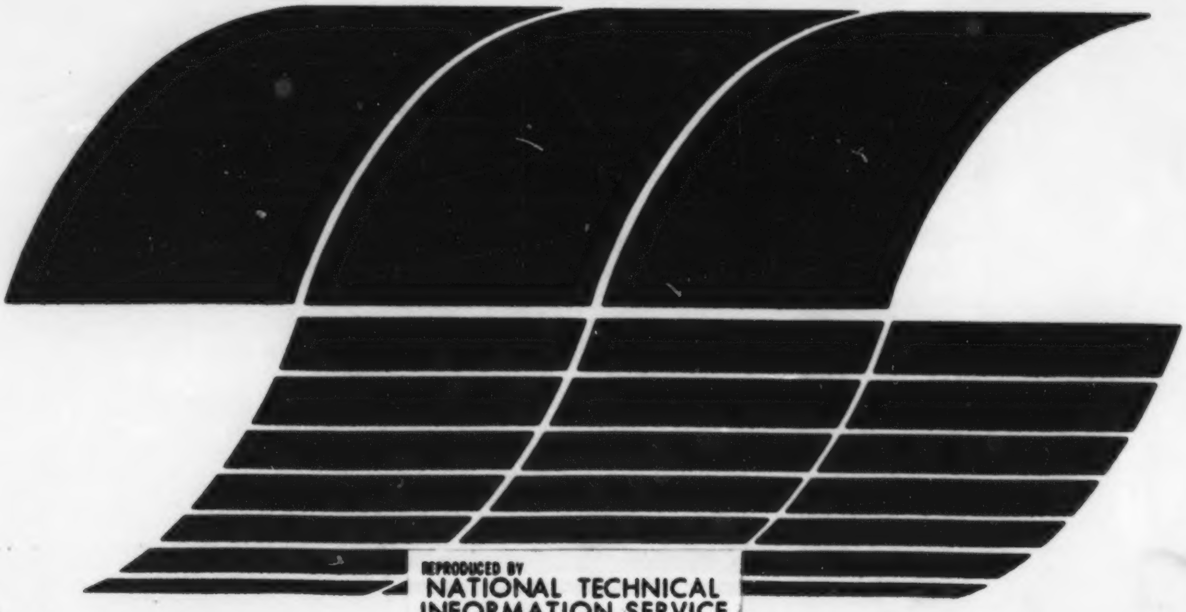

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Coal Conversion Control Technology
Volume III. Economic Analysis; Appendix

by

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ABSTRACT

Information has been gathered on coal conversion process streams. Available and developing control technology has been evaluated in view of the requirements of present and proposed federal, state, regional and international environmental standards. The study indicates that it appears possible to evolve technology to reduce each of the components of each process stream to an environmentally acceptable level. The conclusion has also been reached that such an approach would be costly and difficult of execution.

Because all coal conversion processes are net users of water, liquid effluents need be treated only for recycling within the process, thus achieving essentially "zero discharge." Further, with available technology gaseous emissions can be controlled to meet present environmental standards, particulates can be controlled or eliminated and disposal of solid wastes can be managed to avoid deleterious environmental effects.

Volume I focuses on environmental regulations for gaseous, liquid, and solid wastes, and the control technology for liquid effluents. Volume II deals with the control technology of gaseous emissions and solid wastes.

Volume III includes a program for economic analysis of control technology and includes the appendix.

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SECTION 11

PROGRAM FOR ECONOMIC ANALYSIS OF CONTROL TECHNOLOGY

The overall program for economic analysis of control technology has as its objectives:

- o Determination of capital and operating costs for individual control processes
- o Assembly of cost models that consider control efficiency and the effects of conversion process plant size and location
- o Development of the cost models as modules which can be added in various combinations to yield the total cost of environmental control for each of the selected coal conversion processes

It is the intent of this section of the project report to prioritize the work that is recommended for the economic analysis of available and developing control technology to include the following:

- o Preparation of a list of existing and developing control technologies that can be considered as being usable for each specific known pollution problem in coal conversion plants

(*) Pages 523-888 are in Volume II; pages 1-522, in Volume I.

- In selecting control technology for economic evaluation, assignment of priorities to consider such factors as the importance of the pollutant, the probability that a specific control will be utilized, the availability of adequate information to permit economic evaluation, the adequacy of present economic data, and the availability of alternate controls

- Preparation of a list of control technologies recommended for economic evaluation

- Rationale for developing control technology that could replace the recommended control technologies

- Recommendations concerning which control processes should be considered for economic evaluation for environmental control for selected coal conversion processes

- An explanation of the cost estimating procedures to be used, the level of detail and the estimated accuracy

- Method for comparison of the cost for control with the total project cost

TREATMENT OF LIQUID EFFLUENTS FROM COAL CONVERSION

Streams to be Treated

Non-Oily Water Runoff--
Source is the storm water and washdown water from areas of the conversion plant that are not subject to oily spills and leaks. These areas are segregated by a separate ditch and collection system from the oily plant areas. The water is collected and,

without interim treatment, becomes part of the raw water feed to the conversion plant.

Oily Water Runoff--
Source is the storm water and washdown water from areas of the conversion plant subject to oily spills and leaks. These areas are segregated from the non-oily areas by a separate ditch and collection system. The collected water passes through an oil-water separator. The separated oil is collected and sent to the incinerator/boiler. The cleaned water joins the process quench condensate stream after the condensate stripper.

Coal Pile Runoff--
Storm water runoff is collected by a ditch and sump system and becomes part of the water stream to ash/slag quenching.

Solid Waste Disposal Runoff--
Source is the leachate from the solid waste disposal area which may be partly storm water runoff and partly drainage from the solid wastes. Collected at the disposal area into a sump, it is returned to the conversion plant to be used as ash/slag quench water.

Coal Pretreatment Scrubber Water--
Source is the scrubber for the coal dryer offgases in the coal preparation plant. The scrubber is usually a recirculating type and the small bleed or overflow stream, bearing some oil, is combined with the oily water runoff.

Boiler Ash, Superheater Ash--
Source is the utility boiler/incinerator. The ash is dry, or quenched with minimum water to cool it.

Gasifier Ash Slurry--
Quenched ash/slag from the gasifier is dewatered, combined with the boiler ash,and transported to disposal as a damp mass. The separated water is returned to the ash quenching pit for reuse.

Process Gas Quench Condensate--
Source is the gasification reactor offgas cooler. In Lurgi gasification the quench water contains large quantities of phenols, oils, and tars. In Bi-Gas gasification the content of phenols, oils, and tars in the quench water is so low that separate treatment is not required. In SRC liquefaction phenols, oils,and tars are present in sufficient quantity to require separate treatment.

For Lurgi and SRC quench condensates the waters pass through an oil-water separator. The tars and oils are collected and usually sent to the incinerator. The cleaned water passes to phenol extraction and then to sour water stripping.

Sour Waters--
Source is the condensates from cooling the gasification offgas after the gas has passed through the quenching step. These waters are combined and steam stripped to remove ammonia, carbon dioxide,and hydrogen sulfide. The stripped water in the Lurgi process is sent through air flotation to remove any remaining oil, the oil is sent to the incinerator and the clarified water is sent to biological oxidation. The stripped water from the liquefaction part of the SRC process requires a flocculation step before air flotation and biological oxidation, with the flocculator underflow being sent to the incinerator. In the Bi-Gas process and in the gasification part of the SRC process the process quench condensate is sour water and this passes directly to steam stripping. The stripped water may be returned to the cooling tower makeup water system or to the raw water treatment system.

Biological Oxidation Sludge--

Feed source is the stripped sour water in the Lurgi and SRC processes. Organic content of the water is reduced by biological action to such a level that when clarified and filtered it may be used as cooling tower makeup. Organic sludges are dewatered by filtration and sent to the incinerator or, possibly, to the gasifiers.

Utility Boiler Blowdown--

This water stream contains no organic or volatile materials and is therefore routinely sent to the cooling tower basin.

Cooling Tower Blowdown--

This stream contains suspended and dissolved inorganic salts. Treatment may be directed toward concentrating the stream by evaporation. Alternately, the blowdown may be treated in a sidestream treatment step, with clear water returning to the cooling tower and the more concentrated blowdown stream being sent to evaporation or other disposal.

Sludges and Brines from Makeup Water Treatment--

Source of the sludges is the chemical precipitation steps of the raw and recycled water treatment sequence. Source of the brines is the demineralizing step that follows chemical precipitation and, if used, the reverse osmosis treatment step. Dissolved and suspended inorganic salts may be concentrated by evaporation or be combined with ash to be sent to disposal.

Methods of Treatment

It is seen from the foregoing that each stream is treated to the extent necessary to prepare it for reuse in the conversion process. The contaminants that are removed from the wastewaters appear as saleable products (ammonia, phenol), as gases (carbon dioxide, hydrogen sulfide), or as solutions and suspensions of inorganic salts.

Section 8 of this report contains detailed descriptions of 15 methods of water treatment that have been applied commercially to water streams that are similar or analogous to the streams from coal conversion plants. In the discussion that follows the applications of the methods are considered. The descriptions of the methods are omitted, to avoid repetition, except where they are required for clarification.

Oil-Water Separation by Gravity--
The API separator, tube settlers, and CPI separators all depend on the specific gravity difference between the oil and the water to effect separation. Effluents from these separators range from around 150 mg/l to 10 or 15 mg/l, depending on oil specific gravity, temperature and residence time. In refinery service the API separator has been thoroughly evaluated. The tube settler and the CPI separator appear to offer advantages in lower capital investment for separations comparable to the API separator.

Oil-Water Separation by Flocculation and Air Flotation--
May be used in combination with a gravity settler to reduce oils to the low levels of 10 to 15 mg/l that can be tolerated by biological oxidation. Such combinations usually reduce capital and operating costs below those of the gravity separator alone.

Boiler Feedwater Treatment--
The type and degree of treatment, and the treatment costs, depend on the raw water analysis and the analysis of the recycled water. A high solids content requires filtration with sludge disposal. A high dissolved solids content requires chemical precipitation that produces sludge. Demineralizers are required, particularly for high pressure boilers, and these produce a brine from

regeneration. According to the flowsheets developed for the Lurgi, Bigas and SRC II processes, recycled water to boiler feedwater treatment can range from 0 to about 50 percent of the total feedwater flow.

Phenol Recovery--
Lurgi's Phenosolvan process was investigated from the viewpoint of recovering for sale about 85 to 95 percent of the phenol available in the process quench condensate. The remainder of the phenol was considered to be destroyed in biological oxidation.

Phenol Destruction--
Anerobic digestion followed by aerobic digestion would consume all available phenol and allow elimination of the Phenosolvan process step. Wet air oxidation would also be effective, substituting for first stage biological oxidation, in destroying phenol.

Incineration--
May be a substitute for biological oxidation. Evaporation may be required. As an alternate, catalytic oxidation may be effective.

Biological Oxidation--
Usually considered as the final treatment step for wastewaters containing organics. Variations to increase activity, thus reducing retention time and capital and operating costs, include trickling filters, rotating biological contactors, fluidized sand beds, use of high purity oxygen activated sludge, nitrification and denitrification,and use of powdered activated carbon with wet oxidation regeneration.

Evaporation--
Multiple effect evaporation of streams bearing sludges from boiler feedwater treatment and cooling tower blowdown increases usable water recovery and decreases the quantity of salt-laden water to disposal, limited by salting out and scale formation on heat exchange surfaces to on the order of 11 percent solids. An alternate is the oil fluidized evaporator, which can yield dry solids. The total evaporator load may be lightened by use of reverse osmosis. The stream normally fed to biological oxidation may be evaporated.

Stripping--
Simple steam stripping is satisfactory when it is followed by biological oxidation. Without biological oxidation, as in the Bi-Gas process, lime treatment is also required. High chlorides in the water increase the problem.

Reverse Osmosis--
May be used with evaporation to reduce the evaporator load. Operation with inorganic and organic sludges is possible. May also be used to reject such inorganics as chlorides, sulfates, borates, silicates, phosphates, and nitrates from cooling tower makeup.

Ozonation, Activated Carbon, Alkaline Chlorination--
These methods may be required in Bi-Gas water treatment sequences to reduce ammonia, cyanides, and sulfides in water to be used for cooling tower makeup or boiler feedwater.

Selection of Processes for Economic Evaluation

In a coal conversion plant designed for maximum recycle of water, where the only water leaving the plant is contained in the solid waste and in cooling tower evaporation and drift, and where contaminant removal to allow recycling has been demonstrated on waters similar or analogous to wastewaters from coal conversion plants, there are two areas to be investigated:

- Determination of the real similarities and differences between waters that have been effectively treated by commercial processes and wastewaters from conversion processes. This will permit decisions to be made on complete applicability of the control processes or only partial applicability that may require modification or further investigation

- Determination of the costs of the steps in the treatment sequence

Boiler Feedwater Treatment--
If the assumption is made that any wastewater that has been treated for recycling to the boiler feedwater system is no worse in quality than the raw water feed to the plant, then the boiler feedwater treating system is unaffected by changes in the other treatment steps. This assumption is recommended in the economic evaluation procedures; however, chemical precipitation followed by ion exchange should be compared with ion exchange alone and with reverse osmosis plus ion exchange.

Process Quench Condensate Treatment--
The treatment sequence shown in Figure 8-54 for Lurgi gasification includes oil-water separation, phenol extraction, stripping and ammonia recovery, air flotation, biological oxidation and sludge filtration. TABLE 8-62 shows the estimated costs for the several steps, and examination discloses that phenol extraction accounts for 34 percent of the total estimated capital, stripping/ammonia recovery 29 percent and biological oxidation/ sludge filtration 25 percent. Higher priority should thus be

placed on economic evaluation of these three steps since, among them, they account for 88 percent of the total. Economic evaluations of the process sequences could therefore be in the following order, with the provision that the final water stream to be recycled to the raw water system always has the same composition:

- Elimination of phenol extraction by adding anaerobic digestion to biological oxidation. In considering overall conversion plant economics, the reduction in revenue from elimination of phenol sales should be noted.

- Elimination of phenol extraction by substituting wet air oxidation for the first stages of biological oxidation

- Elimination of biological oxidation by feeding stripped water to the incinerator. Alternately, installation of an evaporator to recover water followed by incineration of evaporator bottoms may be evaluated. A second alternate is use of reverse osmosis instead of evaporation. In both alternates the sludge filter is eliminated

- In biological oxidation, contrast trickling filter, rotating biological contactors, fluidized sand beds, high purity oxygen activated sludge and powdered activated carbon with wet oxidation regeneration

Other economic evaluations for the remaining process sequence steps could be:

- Contrast API separators, tube settlers and CPI separators for oil-water separation

- Determine the effect on the air flotation step of changes in the separator step

Water Treatment Sludge and Cooling Tower Blowdown--
The sludges from boiler feedwater treatment and the cooling tower blowdown may be prepared for inclusion in the solid waste stream by evaporation, reverse osmosis, ion exchange or other means in various combinations. Economic evaluation should include:

- Evaporation of the total sludge plus blowdown stream to a solids content that avoids heat exchanger scaling. Evaluate costs versus number of effects
- Reverse osmosis followed by evaporation of the reject brine stream
- Reduce the cooling tower blowdown stream to evaporation by sidestream treatment by chemical precipitation, ion exchange or reverse osmosis, with sludge or reject brine going to evaporation
- Substitute oil-fluidized evaporation for conventional evaporation
- Eliminate water treatment sludge by using ion exchange in water treatment and feeding regeneration liquids to either type of evaporator
- The economics should be investigated for partial freezing of the water stream, separating the ice for recycle and evaporating the remaining liquid

TREATMENT OF GASEOUS EMISSIONS FROM COAL CONVERSION

Streams to be Treated

Boiler/Incinerator Offgas--
Sources of nitrogen oxides in offgas are nitrogen compounds in the coal, liquids, and gases to be incinerated and nitrogen in combustion air.

Source of particulates is entrained fly ash.

Sources of sulfur dioxide in offgas are sulfur compounds in coal and in liquids and gases to be incinerated.

Sulfur Recovery Offgas--
Source is the Claus or Stretford sulfur recovery unit. The quantity and composition are affected by the composition of the feed gas.

Cooling Tower Drift--
Source is the droplets of cooling tower water entrained in the cooling tower exhaust air.

Lock Hopper Vent Gas--
Source is residual gas in lock hoppers feeding coal to reactors.

Ash Quench Vent Gas--
Source is the ash quench pit at the reactor.

Storage Vessel Emissions--
Source is volatiles from tank breathing or filling.

Methods of Treatment

Particulates in boiler/incinerator offgases are removed by cyclones followed by wet scrubbers, wet scrubbers alone or cyclones followed by electrostatic precipitators.

Nitrogen oxides in boiler/incinerator offgas may be controlled by boiler modification, hydrotreating liquid fuels,and denitrification of flue gases.

Sulfur dioxide emissions from the incinerator/boiler may be reduced to meet present environmental standards by reducing the sulfur content in the feed coal physically, chemically or by a combination of both. Sulfur dioxide formation in the boiler may be reduced by fluidized bed combustion. Sulfur dioxide in the flue gases may be reduced by scrubbing to recover sulfur, scrubbing with discard of sulfur values or by dry absorption or reaction.

Hydrogen sulfide in the offgas from sulfur recovery may be reduced to meet present environmental standards by treatment to recover more sulfur or by incineration followed by the methods used for control of sulfur dioxide.

Cooling tower drift may be controlled by advanced design of mist eliminators in a forced draft tower by reducing air velocity in the tower or through use of natural draft tower designs.

Lock hopper vent gas may be controlled by releasing pressure through a compressor that returns the raw gas to the system, followed by a nitrogen or carbon dioxide purge, or by releasing the lock hopper gas to fuel gas or incineration followed by purging to fuel gas or incineration.

Ash quench vent gas may be controlled by separating the solids in a wet cyclone, condensing water vapor by direct contact with scrubber water and sending noncondensables to incineration.

Storage vessel emissions may be controlled by incineration, by refrigeration to condense the vapors, by scrubbing systems that use solvents of low volatility or by adsorption systems.

Selection of Processes for Evaluation

Control of nitrogen oxides in incinerator/boiler offgases appears to demand high priority in economic evaluation because of the possible, or probable, future reduction in allowable emissions. Economic evaluation should include the following:

- o Reduction of emissions possible with boiler modifications. Cost of modifications. Separate evaluations for coal. waste tars, oils, and other liquids and waste gases. Evaluation for expected combinations of these

- o The effect of feeding organic wastes in water suspension or solution on emissions, on boiler efficiency and on costs

- o The hydrodenitrogenation of the waste tars and oils

- o Denitrification of flue gases by wet and dry processes. Combination processes that also remove sulfur dioxide

Control of sulfur dioxide should include evaluations of:

- o Processes for recovery of sulfur, sulfuric acid or concentrated sulfur dioxide from the boiler offgas. For processes, like the citrate process for sulfur recovery, that use part of the hydrogen sulfide gas feed to the Claus or Stretford sulfur recovery unit as feed for conversion of sulfur dioxide, the effect on capital and operating costs of the Claus or Stretford unit should be evaluated

- o Processes for desulfurization of flue gas by scrubbing with lime or limestone and discarding the resulting sludge. Evaluation of the overall effect on conversion plant economics of discarding part or all of the sulfur values in the coal feed
- o Processes for simultaneously removing nitrogen and sulfur oxides from the boiler offgas
- o Dry processes for sulfur dioxide removal, including direct injection of ammonia into the flue gas
- o Processes for hydrodesulfurization of waste tar and oil. Combination hydrodesulfurization and hydrodenitrogenation

Control of particulates should be evaluated from the following viewpoints:

- o If the incinerator/boiler offgases are to be treated dry for removal of gaseous pollutants, the particulate control should also be dry, as cyclones followed by electrostatic precipitators, hot gasifiers or baghouses
- o If the offgases are to be treated wet, as in a recovery or throwaway scrubber system, cyclones to remove larger particulates may be the only control requirement

Control of hydrogen sulfide in Claus or Stetford sulfur recovery tail gas should be evaluated from these viewpoints:

- The economics of recovering more sulfur by adding tail gas treatment. Contrast Beavon, ARCO, SCOT and other promising recovery processes
- The economics of incinerating the offgas and recovering its sulfur values together with the sulfur values already in the incinerator/boiler offgas
- The economics of incinerating the offgas and removing the total sulfur values from the incinerator/boiler offgas by dry and by wet methods

Evaluation of control of cooling tower drift should include:

- Economics of replacing conventional drift eliminators with high efficiency types
- Economic comparison of forced draft cooling towers with high efficiency eliminators versus natural draft cooling towers

With regard to lock hopper vent gases, it is recommended that evaluation be limited to installation of a carbon dioxide or nitrogen purge system, with incineration of residual and purge gases.

Evaluation of controls for storage tank emissions may include the following:

- Economics of individual versus collective emissions treatment

- o Economic comparision of incineration, refrigeration, scrubbing with recovery and adsorption with recovery

TREATMENT OF SOLID WASTES FROM COAL CONVERSION

Streams to be Treated

Fugitive Coal Dust--
Dusts are evolved during transit from coal mine to coal conversion plant, at the coal unloading station, during conveying and stacking in storage piles, during storage in piles, during reclaim and conveying to the coal preparation section of the conversion plant and in the milling and screening operations of coal preparation.

Solid Wastes--
This stream is principally ash or slag from gasifiers and utility boilers, but also includes inorganic salts in suspension or solution from water treating, spent catalysts,and other miscellaneous solid inorganic wastes. In this project no flue gas desulfurization sludge is considered to be generated.

Methods of Treatment

Fugitive Dusts in Transit--
Dust evolution may be suppressed by spraying a chemical binder on loaded cars before they leave the coal mine. Alternately, dust may be eliminated by separating all particles smaller than 500 micrometers in diameter, agglomerating them into particles 500 micrometers or larger in diameter, and combining the agglomerates with the main coal stream.

Fugitive Dusts at the Conversion Plant--

Dust evolution may be suppressed in coal unloading, handling, stacking and reclaiming to the coal preparation section by spraying a water solution of surfactant on the coal at various points in the system. Alternately, the incoming cars may be saturated with a water solution of surfactant prior to unloading.

Dust evolution from "dead" storage piles may be suppressed by application of a chemical binder

Dust evolution in coal preparation may be controlled by covering conveyors and screens and venting these and the mills to baghouses. Coal storage silos may be vented to dust collectors that return the dust to the silos.

Dust evolution in the conversion plant up to the screens and mills in coal preparation may be eliminated by separation and agglomeration of dust at the mine.

Solid Wastes--

In the disposal area the solid wastes may be deposited and compacted on an impervious membrane that isolates the wastes from ground and subsurface water.

The solids may be chemically stabilized before deposition in the disposal area. Depending on the permeability characteristics of the stabilized mass, an impervious membrane may, or may not, be interposed between the wastes and the soil.

Leachates--

To avoid accumulation of liquids in the solid waste disposal area, provision for bottom drainage of the area is required. Drainage may be through a pervious layer of sand and gravel applied on top of the impervious membrane liner or as the bottom layer in the area prepared for chemically stabilized wastes. Alternately, drainage may be provided by pipes arranged in a drain field on the bottom of the disposal area.

Leachate should be conducted by lined ditches or pipes to a sump from which it may be pumped back to the conversion plant for use in ash quenching or for treatment and recycling into the conversion process.

Covering the Disposal Area--

The deposited and compacted solid wastes should be covered with at least two feet of soil, with the upper 6 inches being top soil, graded and sown with a ground cover.

Methods for Evaluation and Comparison of Control Processes

Economic evaluation of means of dust suppression should include the following:

- Estimation of the value of coal dust losses during transit, handling and storage to evaluate the incentive for suppressing dust

- Determination of capital and operating costs of spray systems to apply binders to cars at the mine, spray systems and any auxiliary systems needed to suppress and control dust evolution from moving coal streams in the conversion plant, spray systems for binders for "dead" storage piles.

Dust elimination methods should be contrasted with dust suppression methods in the following manner:

- Determine the capital and operating costs of dust control methods that are normally used at the mine in handling usable dust

- Determine capital and operating costs of the handling and drying system that is used for reclaiming wet coal fines

- Develop capital and operating costs for separation of dust from dry coal, including air elutriation and screening together with dust collection and storage

- Develop capital and operating costs for such methods of agglomerating coal dusts as compaction, briquetting and granulation together with costs of any associated processes or equipment

- Compare the total costs associated with dust agglomeration to the total costs associated with dust suppression

Capital and operating costs of solid waste disposal should be evaluated in the following manner:

- Evaluate such methods of solids transport as trucks, belt conveyors,and aerial tramways as means of moving solids from the conversion plant to the disposal area

- Determine costs of preparation of the disposal area, including the drainage and return system and the cover. Consider level ground, strip mines,and valleys

- Determine costs of installation of impervious liners. Evaluate liners according to durability in service and cost

- Evaluate chemical stabilization systems according to system capital and operating cost, such associated costs as slurry pumping, supernatant water return, need for an impervious liner during or after filling of the area and need for special treatment of the stabilized mass. Consider the IUCS, Dravo and Chemfix systems, together with any other promising systems

BASIS FOR ECONOMIC STUDIES

Composition of Raw Water

To evaluate the effect of variation in raw water analysis on the boiler feedwater treatment costs, it is suggested that the effect of, say, 6 analyses drawn from various areas of the U.S. be evaluated for one water treatment sequence, that factors be calculated for the effect of changing analysis on capital and operating costs for that treatment process, that one water anyalsis be evaluated in the other treating processes and that the multiplying factors be applied to the other processes to demonstrate the economic effect of changing processes and changing analyses.

Coal Feed Analysis

It is suggested that coal feeds be chosen as low sulfur western coal, high sulfur eastern coal and lignite.

Conversion Process Effluent Emission and Waste Compositions and Quantities

It is suggested that the data and information on these streams that were developed for this project be updated and amplified with real data from actual operations of the conversion processes wherever possible. When analyses are lacking, best engineering estimates are suggested as a working basis.

Capital Cost Data

Costs supplied by treatment process licensors, equipment vendors, or others should be carefully examined by a cost estimating expert to ascertain that assembly of final installed costs of equipment includes all of the engineering, procurement, and construction costs.

Plot Plans

These may be required for estimation of piping, electrical, and other costs.

Operating Cost Development

Chemical usage and utilities requirements should be stated by the process or equipment suppliers. Manpower and maintenance costs should be developed by a skilled estimator.

Location Adjustments

Variations in costs for construction labor and materials for selected U. S. locations should be developed as factors by the cost estimator to be applied as multipliers to the costs developed for a (selected) base case loction, such as the U. S. Gulf Coast.

Capacity Adjustments

Multiplying factors for application to a (selected) base case capacity should be developed by the cost estimator.

Cost Basis and Updating Factors

The cost basis should be established for a convenient year quarter and be firmly adhered to. Updatings to later bases can be made by use of an overall multiplier, such as an inflation factor or, in the case of capital costs, by cost change multipliers derived from categories of equipment or services or from representative requotations of equipment.

THE CAPITAL COST MODEL

E = Major Equipment. This is the delivered material cost of equipment and includes furnaces, heat exchangers, converters, reactors, towers, drums and tanks, pumps, compressors, transportation and conveying equipment, special equipment (filters, centrifuges, dryers, agitators, grinding equipment, cyclones, etc.), and major gas ductwork.

M = Other Material Costs. This includes the cost of piping, electrical, process instrumentation, paint, insulation, foundations, concrete structures, and structural steel for equipment support. It also includes such items as site preparation and steel frame structures and may include process buildings and control rooms. Shops and offices, though they may be necessary, are usually considered as offsite items.

L = Field Construction Costs. This includes the cost of direct field construction labor, fringe benefits and payroll burden, field administration, supervision and temporary facilities, construction equipment and tools.

H = Home Office Engineering Costs. This includes home office construction, engineering and design, procurement, client services, accounting, cost engineering, travel and living expenses, reproduction, and communication.

B = Base Cost of the Installed Process. This is defined as the sum of equipment costs, other material costs, construction labor and labor indirects, and home office engineering. For the base case location, B = E + M + L + H.

TI = Taxes and Insurance. These are costs incurred during the construction period.

OP = Overhead and Profit. This is a cost charged to the project by the contractor.

C = Contingency. Usually expressed as a fraction of B, the base cost of the plant, it represents the degree of uncertainty in the process design and the cost estimate. It may range from 0.0 to 0.1 for a well-established process whose costs are well documented. It may range to 0.2 or more for a process that is still under development, where capacity, location or other parameters have changed from the base case or where costs were not well documented and factors for M, L, and H must be used instead of real figures.

TPI = Total Process Investment. This is defined as the sum of the bare cost (including contingency), taxes and insurance, and contractor's overhead and profit:

$$TPI = E + M + L + H + TI + OP + C$$

S = Startup Costs. These costs include commissioning the installed process, installing catalysts and chemicals and, in general, readying the installation for onstream operation.

W = Working Capital. This capital is required for such items as raw materials inventory and materials and supplies for the process.

IC = Interest During Construction. This cost depends on the duration of the construction period, from signing of the construction contract to "ready for commissioning."

TCR = Total Capital Required. This is the sum of all the above items:

$$TCR = E + M + L + H + TI + OP + C + S + W + IC$$

THE OPERATING COST MODEL

R = Annual Cost of Raw Materials, Utilities and Waste Disposal. Byproduct credit should be substracted from this cost.

OL = Annual Cost of Operating Labor. Includes cost of operating labor supervision.

ML = Annual Cost of Maintenance Labor. Includes cost of maintenance labor supervision.

PS = Annual Cost of Process Supplies. This may include charts, cleaning supplies, miscellaneous chemicals, lubricants, paint and replacement parts such as gaskets, seals, valves, insulation, welding materials, packing, and vessel lining materials.

OH = Annual Cost of Administration and Overheads. These costs include salaries and wages for administrators, secretaries, typists and clerks and such other costs as office supplies and equipment, medical and safety services, transportation and communications, lighting, janitorial services, plant protection, payroll overheads and employee benefits.

AT = Annual Local Taxes and Insurance. Included are property taxes, fire and liability insurance and other items such as special hazards insurance and business interruption insurance.

AOC = Total Net Annual Operating Cost. This is the sum of the operating costs items:

$$ACO = R + OF + ML + PS + OH + AT$$

D = Annual Depreciation. This may be calculated by the straight-line method, where TCR - W is divided by the expected life of the process. Other methods may be used, such as declining balance and sum-of-the-digits.

IR = Average Annual Interest on Borrowed Capital + Average Annual Net Return on Equity. These are calculated according to a procedure recommended in the literature.* The procedure assumes a fixed debt-to-equity ratio, an interest rate on debt, and the required net (after tax) rate of return on equity. Interest on debt and return on equity are calculated over the plant life, and the yearly average is expressed as a percentage of the total capital required (TCR).

FT = Federal Income Tax. This is the average yearly income tax over the process life, expressed as a percentage of the total capital required (TCR).

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*Synthetic Gas-Coal Task Force, "Final report - The Supply-Technical Advisory Task Force - Synthetic Gas-Coal," prepared for the Supply-Technical Advisory Committee, National Gas Survey, Federal Power Comission, April 1973.

APC = Total Annual Production Cost. This is the sum of the above items:

$$APC = AOC + D + IR + FT$$

USE OF THE COST MODELS

The general cost model that has been described will provide a standard format for estimating process economics so that economic comparisions between processes may be made on a consistent basis by ensuring that all estimates include the same cost items.

This general cost model uses a utility-type financing method and is based on a procedure recommended in the literature.* Fundamentally, the model assumes no time value for money. That is, for estimating the economics of control processes, such items as interest on debt and return on investment can be related to capital costs by simple percentages which remain constant from year to year. This method allows a simple, straight-forward calculation of process operating costs.

(It should be noted that the discounted cash flow method may also be used to determine capital and operating costs for the processes. This method, because it takes into account the time value of money, may more nearly apply to industrial operations than does the utility financing method. The discounted cash flow method is based on the same literature reference as the previous method.*)

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*Synthetic Gas-Coal Task Force, "Final Report - The Supply-Technical Advisory Task Force - Synthetic Gas-Coal," prepared for the Supply-Technical Advisory Committee, National Gas Survey, Federal Power Commission, April, 1973.

SECTION 12

TECHNOLOGY TRANSFER

REPORTS COMPLETED

The draft report "Environmental Standards Applicable to Coal Conversion Processes" by Donald K. Webber and Donald E. Whittaker was delivered to EPA in September 1978.

ABSTRACT

Existing and proposed environmental standards have been gathered and synopsized to serve as a guide for evaluation of the efficiency of available and developing technology for control of liquid effluents, gaseous emissions, and solid wastes from coal conversion processes. Within the United States, the Federal and EPA standards and guidelines for air, water, and solid wastes were gathered, together with the standards for 22 states selected for their potential in installation of coal conversion facilities and the standard for two regional commissions. With a view toward the possibility of environmental effects crossing national borders, the standards and guidelines for Mexico, the Dominion of Canada, two Canadian provinces and the International Joint Commission of U.S. and Canada, were synopsized and added to the U.S. standards.

All of the standards and guidelines were compared and from them a summary of the most stringent of the standards was developed. This summarization, reduced as far as possible to engineering terms, can serve as a guide in the design of coal conversion plants on the premise that if the effluents, emissions,and wastes from the conversion process steps are so treated that the final releases to the environment meet the criteria in the summary of most stringent standards, then the conversion plants can be built anywhere in the U.S., Mexico,or Canada.

SYMPOSIA AND MEETINGS

At a contractors' symposium at RTP in June 1977 the Pullman Kellogg program was discussed and areas in which the program overlapped, supplemented or was supplemented by other programs in progress were defined.

At the Florida EPA symposium in September 1977, " Environmental Aspects of Fuel Conversion Technology, III," the paper "Control Technology Development for Fuel Conversion Wastes" was presented:

ABSTRACT

Pullman Kellogg's contract with the Environmental Protection Agency concerns control technology development for fuel conversion system waste utilization and disposal, for coal storage, preparation and feeding and for wastewater treatment. The program includes assessment of available and developing control technology as applied to fuel conversion effluents/emissions/wastes and relationship to present and proposed environmental regulations, continues with theoretical and experimental development of promising alternate control technologies, then concludes with an overall comparative analysis of all technologies and an

engineering design and cost estimate for those control methods judged to be appropriate for integration into conversion system flow schemes.

Since the program has been operating for only five of its scheduled 36 months, this paper may be considered as a progress and planning report.

A paper "Environmental Program of Solid Wastes from Synthetic Fuels from Coal Technologies" was prepared for presentation at the November 1977 meeting of AIChE in New York:

ABSTRACT

Pullman Kellogg's contract with EPA reflects the concepts of the synfuels program in its title: "Control Technology Development for Fuel Conversion System Waste Utilization and Disposal; Coal Storage, Preparation and Feeding; and Wastewater Treatment." The work is divided into assessment of available and developing control technology, control technology development and control technology evaluation. The desired end product of the effort is the development of control technology in the areas of conversion system wastes, coal processing as applied to coal conversion systems and water management. The work is designed to interface with other studies in the EPA synfuels program for interchange of information and definition of problems. These studies include physical and chemical coal cleaning, control technology for fuel converter output streams and the products and byproducts of fuel conversion systems, and environmental assessments in gasification and liquefaction. Although the contract includes aspects of control technology for solid, liquid, and gaseous emissions from fuel conversion process, and Kellogg's efforts are directed into all three areas, only solid wastes will be considered in the discussion that follows.

APPENDIX

PROJECT BIBLIOGRAPHY: PULLMAN KELLOGG REFERENCE FILE

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Accession Number Index A-69

Title Index A-201

Author Index A-238

Corporate Author Index A-305

APPENDIX

PROJECT BIBLIOGRAPHY: PULLMAN KELLOGG REFERENCE FILE

The project bibliography was modeled on the Pullman Kellogg Information and Retrieval (ISTAR) system that was developed in the Research and Development Center. The indexes were established to provide easy identification, access and retrieval of the many documents that were obtained for the project.

The indexes provide identification of the content of the documents. They do not provide abstracts or other in-depth access to the subject matter, since detailed retrieval of information can be accomplished through use of such commercial data services as NTIS and Chemical Abstracts.

Documents bearing accession numbers up to and including 252 were gathered by Pullman Kellogg prior to the beginning of the project. These documents are the property of Pullman Kellogg. Documents bearing accession numbers 253 and subsequent were purchased with funds from this project and are therefore Government property.

Subject List

A standarized subject list of keywords, TABLE A-1, was developed to describe the principal concepts in each document. Each document, upon receipt, was assigned a unique accession number to identify its position in the filing system. Then, from the subject list, each document was assigned from 1 to 5 keywords to identify the subject matter.

The abbreviation "S.A." denotes "See Also" and guides the user to related terms.

TABLE A-1. SUBJECT LIST

ACETYLENE
ACTIVATED CARBON --------SEE CARBON
ACTIVATED SLUDGE --------SEE SLUDGE
ADSORPTION
AMMONIA
ANALYSIS
ASH ----------------------S.A. COAL ASH
ASPHALT
BIBLIOGRAPHY
BIGAS
BIOX ---------------------BIOLOGICAL OXIDATION
BOD ---------------------BIOLOGICAL OXYGEN DEMAND
BOILER
BUR. OF MINES
CARBON
CARBON DIOXIDE
CARBONIZATION
CARBONYLS
CATALYST
CHAR OIL
CHLORINE
CITRATE PROCESS
CLAUS GAS
CLEAN COKE
CO(2) ACCEPTOR
COAGULATION
COAL ---------------------S.A. LIGNITE, PYRITE
COAL ASH ----------------SEE ASH
COAL CHAR
COAL CLEANING ------------S.A. FILTRATION
COAL COMBUSTION

TABLE A-1. SUBJECT LIST (CONT)

COAL CONVERSION --------S.A. SPECIFIC PROCESSES
COAL GASIFICATION --------S.A. SPECIFIC PROCESSES
COAL HANDLING
COAL LIQUEFACTION --------S.A. SPECIFIC PROCESSES
COAL MINING
COAL PLANT
COALCON
COED
COG REFINERY -------------COAL-OIL-GAS REFINERY
COGAS
COKING
CONSOL
CORROSION
CRUDE OIL
CYANIDES
DESALINATION
DESULFN. ----------------S.A. SULFUR, EMISSIONS, SCRUBBING
DONOR SOLVENT
DRAVO
EFFLUENTS ----------------S.A. EMISSIONS, WASTEWATER, POLLUTION
EMISSIONS ----------------S.A. POLLUTION, DESULFN., SCRUBBING
ENERGY
ENTRAINMENT
ENVIRONMENT -------------S.A. POLLUTION
EPA
ERDA
FBC ---------------------FLUID BED COMBUSTOR, S.A. COAL COMBUSTION
FILTRATION ---------------S.A. COAL CLEANING
FLOCCULATION
FLOTATION
FLUID BED ---------------S.A. FBC

TABLE A-1. SUBJECT LIST (CONT)

FLUORIDES
FUEL -----------------S.A. SOLID, LIQUID OR GASEOUS FUEL
FUEL CELL
FUEL GAS
FUEL OIL
GAS
GASEOUS FUEL
GASOLINE
H-COAL
HEALTH ---------------S.A. SAFETY, TOXICITY
HEAT EXCHANGER
HYDRODESULFN-----------HYDRODESULFURIZATION
HYDROGASIFICATION -----S.A. HYGAS
HYDROGEN
HYDROGEN SULFIDE
HYDROGENATION
HYDROTREATING
HYGAS ----------------S.A. HYDROGASIFICATION, IGT
IGT ------------------S.A. HYGAS, HYDROGASIFICATION
KINETICS
KOPPERS
LEACHING -------------S.A. SOLID WASTE
LIGNITE -------------S.A. COAL, PYRITE
LIQUID FUEL
LNG ------------------LIQUID NATURAL GAS
LURGI
MEMBRANE
METAL -----------------S.A. TRACE ELEMENTS
METHANATION
METHANE
METHANOL

TABLE A-1. SUBJECT LIST (CONT)

MEYERS
MOLTEN SALT
NATURAL GAS
NITROGEN OXIDES ----------S.A. EMISSIONS, POLLUTION
OIL ----------------------S.A. CRUDE OIL, FUEL OIL
OIL SHALE
OXYGEN
OZONE
PARAHO
PEDCO
PHENOL
PIPELINE GAS ------------SEE FUEL GAS
PNA ---------------------POLYNUCLEAR AROMATICS
POLLUTION ---------------S.A. ENVIRONMENT, HEALTH, WASTE
POWER CYCLE
POWER PLANT
PYRITE ------------------S.A. COAL, LIGNITE
PYROLYSIS
REGENERATION
REGULATIONS -------------S.A. STANDARDS
SAFETY ------------------S.A. HEALTH, TOXICITY
SCRUBBER
SCRUBBING
SEPARATION --------------S.A. ANALYSIS
SLUDGE
SLURRY
SNG ---------------------SYNTHETIC NATURAL GAS
SOLID FUEL
SOUR WATER
SRC ---------------------SOLVENT REFINED COAL

TABLE A-1. SUBJECT LIST (CONT)

STANDARDS ---------------S.A. REGULATIONS
STEEL
SULFUR -----------------S.A. DESULFN.
SULFUR DIOXIDE ---------S.A. DESULFN., SCRUBBING, EMISSIONS
SYNTHANE
SYNTHOIL
TAR
TAR SANDS
THICKENERS
TOWER
TOXICITY ---------------S.A. HEALTH, SAFETY
TRACE ELEMENTS
TRW
TVA --------------------TENNESSEE VALLEY AUTHORITY
UGAS
WASTE ------------------S.A. POLLUTION, EMISSIONS, EFFLUENTS
WASTEWATER -------------S.A. WATER, POLLUTION, EFFLENTS
WATER ------------------S.A. WASTEWATER
WESTINGHOUSE
WINKLER

Bibliography Index

The bibliography index is arranged in order by accession number. The index contains all the bibliographic information for each document in a fixed format. Following is the content of each line of the format:

Line Identification	
10 and 11	Title
20 and 21	Source (journal, conference) or subtitle
30	Personal authors (up to 5)
31	Corporate author
40	Organization for which work was done (or publisher), their report number and NTIS order number

An "X" at the end of the title indicates that the bibliographic information may be incomplete.

Keyword Index

Each document can have from 1 to 5 lines of keywords to describe it. The first word of each line must come from the subject list. Then, any other keywords that describe the particular document can be added to that line.

Since most of the documents dealt with coal conversion, general terms such as "Coal Gasification" or "Coal Liquefaction" were only to describe reports that dealt with many different processes.

A report on 1 or 2 specific processes would be indexed under those specific processes and not under a general term. For example, a report on Lurgi coal gasification would be indexed under "Lurgi," while a symposium on coal gasification would be indexed under "Coal Gasification," even though the Lurgi process would be mentioned in the symposium. This method of selection of keywords applies throughout the index to other general terms, such as emissions or wastewater.

Other pertinent information, such as the personal author, the file code number (01 for this file), the accession number and the type of document are also included in this index. TABLE A-2 lists the types of documents and their codes. More information on the document can then be found by using the accession number to refer to the bibliography index.

Title Index

The title index is an alphabetical list of the first lines of the titles of all the documents. When "a", "an", or "the" was the first word of the title, it was omitted. The title index refers the user to the accession number, which can be used to find further information in the bibliography index.

Author Index

The names of authors are inverted and only one intial is used, i.e., Smith, J. The maximum number of authors indexed for each document is the same as the number of lines of keywords that are used. For example, a document with only two lines of keywords that has five authors will have only the first two authors listed

TABLE A-2. DOCUMENT CODES

CODE	TYPE OF DOCUMENT
A	Minutes of Meetings
B	Bibliography
C	Contracts
D	Invention Disclosures
E	Articles or Papers
F	Flowsheets
G	Correspondence with Outside
H	Outside Reports
I	Patents
J	Books
L	Legal Documents
M	Monthly Reports
P	Proposals
R	Kellogg Research Reports
T	Kellogg Miscellaneous Reports
(blank)	Internal Memos

in the author index. However, all five authors for the same document can be found in the bibliography index. When there are fewer authors than the number of lines of keywords, the authors' names are repeated to equal the number of lines of keywords.

Corporate Author Index

The organization which generated the report is listed in this index. When there was more than one organization involved, only the organization of the first personal author is included. Abbreviations that are used for some of the organizations are shown in TABLE A-3.

Report Number Index

This index lists the report numbers as given by the issuing agency. For example an EPA report would be listed as E600 2-75-014 and an ERDA report as FE 237156.

NTIS Order Number Index

This index lists the number assigned by NTIS. This index, and the previous one, were used primarily for ordering information.

TABLE A-3. LIST OF ABBREVIATIONS OF ORGANIZATIONS

ACS	AMERICAN CHEMICAL SOCIETY
AGA	AMERICAN GAS ASSOCIATION
AICHE	AMERICAN INSTITUTE OF CHEMICAL ENGINEERS
AIME	AMERICAN INSTITUTE OF MINING ENGINEERS
API	AMERICAN PETROLEUM INSTITUTE
AWARE	ASSOCIATED WATER & AIR RESOURCES ENGINEERS, INC.
BCR	BITUMINOUS COAL RESEARCH
BNL	BROOKHAVEN NATIONAL LABORATORY
BOR	BUREAU OF RECLAMATION
CCC	CONSOLIDATED COAL CO.
CCNA	CHEMISTRY CONGRESS OF NORTH AMERICA
CEQ	COUNCIL ON ENVIRONMENTAL QUALITY
DBER	DIVISION OF BIOMEDICAL & ENVIRONMENTAL RESEARCH
EESD	ENERGY & ENVIRONMENTAL SYSTEMS DIVISION
EMSL	ENVIRONMENTAL MONITORING & SUPPORT LABORATORY
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPRI	ELECTRIC POWER RESEARCH INSTITUTE
ERDA	ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
ERL	ENVIRONMENTAL RESEARCH LABORATORY
ESOWP	ENGINEERS SOCIETY OF WESTERN PENNSYLVANIA
FPC	FEDERAL POWER COMMISSION
GWDA	GULF WASTE DISPOSAL AUTHORITY
IECEC	INTERSOCIETY ENERGY CONSERVATION ENGINEERING CONF.
IERL	INDUSTRIAL AND ENGINEERING RESEARCH LABORATORY
IIEQ	ILLINOIS INSTITUTE OF ENVIRONMENTAL QUALITY
IGT	INSTITUTE OF GAS TECHNOLOGY
IMMR	INSTITUTE FOR MINING AND MINERAL RESEARCH
LERC	LARAMIE ENERGY RESEARCH CENTER
MERC	MORGANTOWN ENERGY RESEARCH CENTER
MERL	MUNICIPAL ENVIRONMENTAL RESEARCH LABORATORY
MIT	MASSACHUSETTS INSTITUTE OF TECHNOLOGY

TABLE A-3. LIST OF ABBREVIATIONS OF ORGANIZATIONS (CONT)

NAPCA	NATIONAL AIR POLLUTION CONTROL ADMINISTRATION
NCA	NATIONAL COAL ASSOCIATION
NCWQ	NATIONAL COMMISSION ON WATER QUALITY
NERC	NATIONAL ENVIRONMENTAL RESEARCH CENTER
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY & HEALTH
NSF	NATIONAL SCIENCE FOUNDATION
NTIS	NATIONAL TECHNICAL INFORMATION CENTER
OEMI	OFFICE OF ENERGY, MINERALS, & INDUSTRY
OFF. OF WRT	OFFICE OF WATER, RESEARCH AND TECHNOLOGY
OFFICE OF AQPS	OFFICE OF AIR QUALITY PLANNING & STANDARDS
ORNL	OAK RIDGE NATIONAL LABORATORY
OWHM	OFFICE OF WATER & HAZARDOUS MATERIALS
PERC	PITTSBURGH ENERGY RESEARCH CENTER
PIWC	PURDUE INDUSTRIAL WASTE CONFERENCE
TIC	TECHNICAL INFORMATION CENTER
TWQB	TEXAS WATER QUALITY BOARD
USDA	U.S. DEPARTMENT OF AGRICULTURE
USDI	U.S. DEPARTMENT OF THE INTERIOR
USDOE	U.S. DEPARTMENT OF ENERGY
USGS	U.S. GEOLOGICAL SURVEY
USNRC	U.S. NUCLEAR REGULATORY COMMISSION
VNR	VAN NOSTRAND REINHOLD CO.
WPCF	WATER POLLUTION CONTROL FEDERATION

PULLMAN KELLOGG INFORMATION STORAGE AND RETRIEVAL SYSTEM
RESEARCH INFORMATION DIVISION
FILE---01 EPA 68-02-2198 FUEL CONVERSION
INFORMATION ARRANGED BY AUTHOR

DATE---SEPTEMBER 1979
PAGE--- 1

AUTHOR	SUBJECT	ACCESSION NUMBER	TYPE OF DOCUMENT
ABEL, W.	COAL CLEANING, PYRITE, SEPARATION, BUR. OF MINES	01 0415	M
ADAMS, A.	CARBON, POWDERED, ACTIVATED SLUDGE IMPROVEMENT	01 0928	E
ADAMS, C.	SLUDGE, REFINERY, HANDLING, SOURCES	01 0828	E
ADAMS, C.	BOD, WASTEWATER PRETREATMENT, ECONOMICS	01 0858	E
ADAMS, C.	PHENOL, WASTE TREATMENT, ACTIVATED SLUDGE	01 0963	E
ADAMS, C.	COKE, PLANT WASTEWATER, TREATMENT, EPA GUIDELINES	01 0967	E
AL-HAJ-ALI, N.	EMISSIONS, SO(2) CONTROL, DESULFN.	01 0732	M
ALEXANDER, W.	SRC, LIQUID FUEL, CHARACTERIZATION, HANDLING	01 0274	M
ALFORD, A.	ANALYSIS, MS-GC, WASTEWATER	01 0391	M
ALLEN, C.	FUEL GAS, SULFUR, REMOVAL	01 0270	M
ALPERT, S.	COAL GASIFICATION, HYDROGENATION, OXYGEN	01 0066	F
ANDERSON, L.	WASTE, ORGANIC, CONVERSION TO FUEL + ENERGY	01 0009	M
ANDERSON, W.	LEACHING, COAL PILE, CHARACTERISTICS	01 0422	E
ANDREWS, J.	SULFUR, EMISSIONS CONTROL, CLAUS PLANT	01 0576	E
ANTONIE, R.	WASTEWATER, TREATMENT, FIXED BIOLOGICAL SURFACES	01 0789	J
ARCHERO, P.	CARBON, ACTIVATED, ADSORPTION, WASTEWATER	01 0647	M
ARCHERO, P.	PHENOL, REMOVAL, WASTEWATER, ACTIVATED CARBON	01 0649	M
ARELLA, D.	WASTE, SOLID, METAL RECOVERY, INCINERATOR RESIDUE	01 0533	M

PULLMAN KELLOGG INFORMATION STORAGE AND RETRIEVAL SYSTEM
RESEARCH INFORMATION DIVISION
FILE---01 EPA 68-02-2198 FUEL CONVERSION
INFORMATION ARRANGED BY AUTHOR

AUTHOR	SUBJECT	ACCESSION NUMBER	TYPE OF DOCUMENT
ARMSTRONG, T.	WASTEWATER, TREATMENT, HYDROGEN PLANT, CHEVRON PROCESS	01 0964	E
ARNOLD, T.	CONSTRUCTION, COST INDEXES	01 0888	E
ARORA, J.	FUEL GAS, HYDROGASIFICATION, ELECTROTHERMAL, LIGNITE	01 0164	M
ATKINS, W.	EFFLUENTS, TREATMENT, AMMONIA SEPARATION, PROCESS COMPAR.	01 0823	M
ATTARI, A.	COAL GASIFICATION, TRACE ELEMENTS, ENVIRONMENT	01 0322	M
ATTARI, A.	TRACE ELEMENTS, FATE, COAL GASIFICATION	01 0395	M
ATTARI, A.	IGT, TRACE ELEMENTS, DISTN. IN PROCESS STREAMS	01 0479	E
ATTARI, A.	TRACE ELEMENTS, COAL GASIFICATION, HYGAS	01 0673	M
ATWOOD, M.	TAR SANDS, OIL SHALE	01 0516	E
AUL	DESULFN., FLUE GAS, REGENERABLE PROCESS, FINAL REPORT,V.1	01 0627	M
AUL	DESULFN., FLUE GAS, REGENERABLE PROCESS, FINAL REPORT,V.2	01 0644	M
AYER, F.	ENVIRONMENT, FUEL CONVERSION PROCESSES, TRACE ELEMENTS	01 0036	M
AYER, F.	ENVIRONMENT, FUEL CONVERSION, SYMPOSIUM	01 0230	E
BABU, S.	COAL GASIFICATION, FLUID BED	01 0339	E
BACKER, R.	WASTE, SLUDGE, PHYSICAL PROP., WESTERN COAL	01 0600	M
BACKER, R.	WASTE, EMBANKMENT, PHYSICAL PROP., COAL MINING	01 0766	M
BAILIN, L.	WASTE, HAZARDOUS DETOXIFICATION, MICROWAVE PLASMA	01 0713	M
BAIR, W.	HYGAS, ASH, AGGLOMERATION, COAL CHAR, GASIFICATION	01 0337	E

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BAKER, A.      PYRITE, TWO-STAGE FROTH PROCESS, FLOTATION                  01  0374        E

BALL, D.       ENVIRONMENT, LOW-BTU GAS, RETROFITTING INDUSTRIES           01  0257        M

BARKER, J.     BIOX, CARBON + NITROGEN REMOVAL, COKE PLANT WASTES          01  0800        M

BARRIER, J.    DESULFN., SLUDGE, DISPOSAL, ECONOMICS                       01  0751        E

BARRY, C.      SULFUR, EMISSION REDUCTION, CLAUS PLANT                     01  0568        E

BARTHEL, Y.    CLAUS GAS, TREATMENT                                        01  0559        E

BAUMANN, E.    FILTRATION, DESIGN CONSIDERATIONS, WASTEWATER               01  0496        M

BEARD, S.      COAL GASIFICATION, UNDERGROUND, THERMOCOUPLES               01  0473        M

BEARSE, A.     COAL, OXIDATION, CHEMICALS PRODN.                           01  0152        M

BEAVON, D.     DESULFN., BEAVON PROCESS                                    01  0905        E

BECK, G.       WASTEWATER, TREATMENT, INSTRUMENTATION, PHILADELPHIA ELEC.  01  0920        E

BECKER, D.     EFFLUENTS, ENTRAINMENT, COAL GASIFICATION, FUEL GAS         01  0469        M

BEESON, J.     COAL CHAR, GASIFICATION, ELECTROFLUID REACTOR               01  0158        E

BENDORAITIS,J. H-COAL, SRC, SYNTHOIL, LIQUID FUEL, COAL LIQUIDS            01  0251        M

BENNETT, G.    WASTEWATER, TREATMENT, POWER PLANT, ACTIVATED CARBON        01  0518        E

BERRY, W.      SOUR WATER, STRIPPER, CORROSION, VARIABLES                  01  0968        M
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BERTOLACINI,R. CATALYST, DEVELOPMENT, COAL LIQUEFACTION                01  0295          H

BERTRAND, R.   COAL GASIFICATION, ENVIRONMENT                          01  0903          E

BERUBE, D.     DESULFN., FLUE GAS, MONTANA POWER CO., EVALN.           01  0752          E

BEYCHOK, M.    LIQUID FUEL, SNG, LNG, PROCESS                          01  0702          H
BEYCHOK, M.    SNG, LIQUID FUEL, ENVIRONMENT                           01  0728          H
BEYCHOK, M.    WASTE, AQUEOUS, PETROCHEMICAL PLANTS                    01  0802          J
BEYCHOK, M.    COAL GASIFICATION, LURGI, PHENOSOLVAN PROCESS           01  0830          E

BIENSTOCK, D.  COAL COMBUSTION, DEVELOPMENT                            01  0180          H

BIESINGER, M.  FLOTATION, DISSOLVED AIR, THEORY, INDUSTRIAL EXPERIENCE 01  0886          E

BLACKWOOD, T.  POWER PLANT, FBC, COAL CLEANING                         01  0017          H

BLECHER, W.    ENVIRONMENT, KOPPERS, EVALN., FUEL GAS                  01  0398          H

BOIES, D.      POWER PLANT, COOLING TOWER, BLOWDOWN                    01  0014          H

BOLEY, C.      CARBONIZATION, COAL DEVOLITIZATION, ENTRAINMENT         01  0028          H

BOMBAUGH, K.   ENVIRONMENT, COAL GASIFICATION, COAL PLANT, ANALYSIS    01  0783          H
BOMBAUGH, K.   COAL GASIFICATION, FIXED BED, ANALYSES OF GRAB SAMPLES  01  0788          H
BOMBAUGH, K.   ENVIRONMENT, NON-SITE SPECIFIC TEST PLAN                01  0936          E

BONHAM, J.     AMMONIA, SEPARATION, EFFLUENTS TREATMENT, PROCESS COMPAR. 01  0823        H

BORGWARDT, R.  SCRUBBING, LIMESTONE, FORCED OXIDN., EFFECT             01  0754          E
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BORIO, R.	SRC, COAL COMBUSTION, COAL HANDLING	01 0261	M
BOSTON, D	DESULFN., FLUE GAS, SLUDGE DISPOSAL, CONESVILLE STATION	01 0750	M
BOSTWICK, L.	WASTE, CONTROL TECHNOLOGY DEVELOPMENT	01 0952	E
BOTELER, D.	ENTRAINMENT, CARBONIZATION, COAL DEVOLITIZATION	01 0028	M
BRADY, G.	BUR. OF MINES, COAL CLEANING, PYRITE, SEPARATION	01 0415	M
BRANT, V.	COAL GASIFICATION, LIGNITE, SNG PRODN.	01 0124	E
BRAUN, C.	METHANATION, WET, EVALN.	01 0667	M
BRIGGS, D	POWER PLANT, COAL GASIFICATION, COAL LIQUEFACTION	01 0289	M
BRINN, D	COAL GASIFICATION	01 0151	B
BRODERSON, A.	COAL LIQUEFACTION, ENVIRONMENT, COAL GASIFICATION	01 0425	M
BRODY, M.	WASTEWATER, SAND FILTERS	01 0614	E
BROOKS, J.	COAL LIQUEFACTION, CATALYST, DEVELOPMENT	01 0255	M
BROWN, G.	SULFUR DIOXIDE, RECOVERY, ACTIVATED CARBON, WESTVACO	01 0445	M
BROWN, P.	ASH, FLY ASH, USE IN CEMENT	01 0358	M
BRUCE, S.	WASTEWATER, CYANIDES, THIOCYANATE, IDENTIFICATION	01 0879	E
BRYAN, F.	SLUDGE, WASTEWATER, RESIDUALS MANAGEMENT, CONFERENCE	01 0324	M

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BUCY, J.	EMISSIONS, SO(2), POWER PLANT, EASTERN U.S.	01 0721	R
BUCY, J.	SULFUR DIOXIDE, ABATEMENT PRODUCTS, MARKETS	01 0749	E
BUDDEN, K.	ENVIRONMENT, COAL LIQUEFACTION, EFFECTS, EPA	01 0853	R
BUNYARD, F.	POLLUTION, CATALYTIC AFTERBURNERS, COST, FUEL REQUIRED	01 0487	R
BUONICORE, A.	SCRUBBER, CENTRIPETAL VORTEX, COAL DRYER EMISSION CONTROL	01 0785	E
BURCAW, K.	COKING, AMMONIA REMOVAL FROM WEAK LIQUOR, PROCESS	01 0777	E
BURTON, R.	WASTEWATER, TREATMENT, SILICONE PLANT, UNOX PROCESS	01 0912	E
BURWELL, E	OIL SHALE, RETORTING, IN SITU	01 0004	R
BUSCH, R.	SLUDGE, PHYSICAL PROP., WESTERN COAL, WASTE	01 0600	R
BUSCH, R.	COAL MINING, WASTE EMBANKMENT, PHYSICAL PROP.	01 0766	R
BUSSE, R.	REGULATTONS, ENVIRONMENT, PRETREATMENT	01 0643	R
BUSWELL, A.	WASTE, FERMENTATION, ANAEROBIC	01 0863	E
BUTTS, J.	WASTE, SOLUBLE COD REMOVAL, FLUID BED BIOLOGICAL REACTOR	01 0779	E
BYESEDA, J.	FILTRATION, POLYMER TREATED SAND BED, WASTEWATER	01 0648	R
BYESEDA, J.	FLOTATION, WASTEWATER, OIL-WATER SEPARATION	01 0650	R
BYESEDA, J.	CRUDE OIL, WATER SEPARATION	01 0805	R
CABAL, A.	SRC, SYNTHOIL, LIQUID FUEL, COAL LIQUIDS, H-COAL	01 0251	R
CALDWELL, N.	ENVIRONMENT, COAL MINING, LAND RESTORATION	01 0706	B

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CALLEN, R.	SYNTHOIL, LIQUID FUEL, COAL LIQUIDS, H-COAL, SRC	01 0251	M
CALMON, C.	METAL, SEPARATION, ION EXCHANGE	01 0907	E
CALVERT, S.	SCRUBBER, PARTICULATE, HOW TO CHOOSE	01 0784	E
CAMERON, A.	POWER PLANT, ENERGY NEEDS, COAL COMBUSTION, FLUID BED	01 0419	M
CAMPBELL, J.	COAL GASIFICATION, ENVIRONMENT, IN-SITU	01 0452	M
CAMPBELL, T.	COAL HANDLING, TRANSPORTATION, TRAINS, SLURRY PIPELINES	01 0375	M
CAPLE, R.	CHLORINE, OZONE, WATER DISINFECTION, CHEM/BIOLOGICAL EFF.	01 0809	M
CARLSON, R.	WATER, DISINFECTION, USING CHLORINE + OZONE, CHEM/BIOLOG.	01 0409	M
CASCIANO, R.	EFFLUENTS, PH CONTROL USING CO(2)	01 0741	E
CATO, G.	TRACE ELEMENTS, PNA, BOILERS, FIELD TESTING, EMISSIONS	01 0408	M
CAVAGNARO, D.	COAL LIQUEFACTION, TECHNOLOGY, COAL GASIFICATION	01 0238	B
CAVAGNARO, D.	COAL LIQUEFACTION, TECHNOLOGY, VOL.2, COAL GASIFICATION	01 0256	M
CAVAGNARO, D.	HYDROGEN, PRODN., COAL GASIFICATION	01 0262	B
CAVALLARO, J.	COAL CLEANING, DESULFN., IOWA COAL	01 0007	M
CAVALLARO, J.	DESULFN., COAL, PHYSICAL MEANS	01 0113	M
CAVALLARO, J.	SULFUR, REDUCTION IN COAL, REVIEW, COAL CLEANING	01 0252	M
CAVALLARO, J.	COAL, SULFUR, REDUCTION	01 0596	M
CAVANAUGH, E.	COAL GASIFICATION, LOW/MEDIUM BTU, ENVIRONMENT	01 0896	M

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CECIL, L.	WASTEWATER, REUSE, MEMBRANE, SLUDGE, POWER PLANT	01 0517	E
CHAMBLEE, J.	WASTEWATER, TREATMENT FACILITIES, COST EST.	01 0835	M
CHAN, P.	LEACHING, SORPTION CAPABILITY OF VARIOUS MATERIALS	01 0862	E
CHAPMAN, N.	WASTE, SOLID, DISPOSAL, ABANDONED STRIP MINES	01 0426	M
CHEN, J.	METHANATION, TUBE WALL, SYNTHANE	01 0136	E
CHILDRESS, J.	THICKENERS, LAMELLA, WASTEWATER, COAL CLEANING	01 0468	E
CHILTON, C.	PROCESS PLANT, COST INDEXES	01 0888	E
CHIRAKAPARAMBI	HYDRODESULFN., COAL LIQUIDS, SULFUR	01 0231	M
CHOI, P.	ENERGY, TECHNOLOGY, POLLUTION, AIR QUALITY	01 0328	M
CHOI, P.	CO(2) ACCEPTOR, KOPPERS, PERFORMANCE STANDARDS, LURGI	01 0329	M
CHOPEY, N.	GAS, FROM COAL	01 0569	E
CHOU, K.	WASTEWATER, OIL-WATER SEPARATION, FLOTATION	01 0650	M
CILIMENTI, D.	COAL COMBUSTION, LOW-BTU GASIFIER, POLLUTION,	01 0351	M
CIRELLO, J.	WASTE, SOLID, LANDFILLS,TREATMENT, LEACHING	01 0712	M
CLANCEY, J.	CO(2) ACCEPTOR, COAL GASIFICATION, IGT, KELLOGG	01 0093	E
CLANCEY, J.	LIGNITE, SNG PRODN., COAL GASIFICATION	01 0124	E

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CLANCEY, J.	LIGNITE, GASIFICATION, CO(2) ACCEPTOR	01 0125	E
CLANCEY, J.	LIGNITE, CO(2) ACCEPTOR, GASIFICATION, ECONOMICS	01 0167	M
CLARK, B.	TOXICITY, EFFLUENTS, ANALYSIS	01 0461	E
CLARK, R.	EFFLUENTS, CHARACTERIZATION	01 0597	E
CLARK, E.	COAL GASIFICATION, LOW-BTU, ERDA'S PROGRAM	01 0511	E
CLEASBY, J.	WASTEWATER, FILTRATION, DESIGN CONSIDERATIONS	01 0496	M
CLELAND, J.	REGULATIONS, ENVIRONMENT, FEDERAL, SUMMARY	01 0715	M
CLELAND, J.	ENVIRONMENT, MASS MEDIA GOALS	01 0735	M
CLELAND, J.	ENVIRONMENT, GOALS, ASSESSMENT, EPA, VOL. 1	01 0767	M
CLELAND, J.	ENVIRONMENT, GOALS, ASSESSMENT, EPA, VOL. 2	01 0768	M
CLELAND, J.	POLLUTION, LABORATORY GASIFIER, PARAMETRIC EVALN.	01 0943	E
CLEHE, L.	WATER, QUALITY, BIOX PROCESS	01 0908	E
COALGATE, J.	WASTE, UTILIZATION	01 0483	B
COATES, R.	COAL GASIFICATION, PRESSURIZED, SUPERHEATED STEAM	01 0338	E
COLLURA, M.	LIQUID FUEL, CHARACTERIZATION, HANDLING, SRC	01 0274	B
COLTON, C.	KOPPERS, EVALN., FUEL GAS, ENVIRONMENT	01 0398	M
CONN, A.	COAL PLANT, EQUIPMENT, CONSOL	01 0048	M
CONN, A.	H-COAL, PROJECT EVALN.	01 0069	M
COOK, R.	COAL CLEANING, THICKENERS, LAMELLA, WASTEWATER	01 0468	E

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COOKE, R.	EFFLUENTS, LURGI, BIOLOGICAL PURIFICATION	01 0697	E
COOPER, M.	EMISSIONS, CHROMATE, RESTRICTION ECONOMICS	01 0604	H
COOPER, T.	OZONE, ACTIVATED CARBON, PRE-OZONATION, WASTEWATER TREAT.	01 0833	E
CORBETT, W.	ENVIRONMENT, LOW/MEDIUM BTU COAL GASIFICATION	01 0896	H
CORBETT, W.	ENVIRONMENT, LOW/MEDIUM BTU COAL GASIFICATION, APPENDIX	01 0897	H
CORBETT, W.	ENVIRONMENT, LOW-BTU GASIFICATION, ASSESSMENT	01 0937	E
CORSENTINO, J.	COAL MINING, OIL SHALE, TAR SANDS, WESTERN STATES	01 0484	H
COUGHLIN, R.	POLLUTION, AIR, CONTROL, AICHE SYMPOSIUM	01 0902	E
COUSINS, W.	AMMONIA, WEAK LIQUOR, TERTIARY TREATMENT	01 0817	E
CRAME, L.	SLUDGE, ACTIVATED, REFINERY PROCESS, PP STUDY, ENHANCEMENT	01 0449	H
CROCKETT, P.	POLLUTION, AIR, EFFECT ON VEGETATION, ENVIRONMENT	01 0506	B
CRONAUER, D.	GASOLINE, PRODN., COAL CONVERSION, GULF PROCESS	01 0818	H
CRUMP, J.	WASTEWATER, TREATMENT, WATER REUSE, REFINERY CAPACITY,COST	01 0857	E
CTVRTNICEK, T.	COAL COMBUSTION, COAL MINING, COAL HANDLING	01 0040	H
CTVRTNICEK, T.	SCRUBBING, FOAM, FINE PARTICULATE CONTROL	01 0781	E
CULP, G.	WASTEWATER, TREATMENT, MUNICIPAL, POWDERED ACTIVATED CARBN	01 0786	H
CULP, R.	WASTEWATER, TREATMENT PLANT, OPERATION, LIME SLUDGE	01 0838	E

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CURRAN, G.	CO(2) ACCEPTOR, KENETICS, PHYSICAL & CHEMICAL STUDY	01 0128	H
CURRAN, G.	CO(2) ACCEPTOR, OPERATION OF BENCH UNIT	01 0129	H
CURRAN, G.	SULFUR, HIGH TEMPERATURE REMOVAL PROCESS	01 0583	E
CURRAN, G.	DESULFN., LOW-BTU, FUEL GAS	01 0677	H
CURRAN, H.	MEMBRANE, ION EXCHANGE, DESALTING PROCESSES	01 0790	H
CUSHMAN, R.	TOXICITY, TRACE ELEMENTS, COAL TO FRESHWATER BIOTA	01 0793	H
CZAPOWSKYJ, M.	ENVIRONMENT, COAL MINING, RECLAMATION	01 0707	H
D'ANTONI, J.	SLUDGE, ACTIVATED, DISSOLVED OXYGEN EFFECT	01 0911	E
DALTON, S.	DESULFN., SCRUBBING, SUBSYSTEM COMBUSTION FOR RECOVERY	01 0747	E
DANG, V.	COAL CONVERSION, MOVING BED REACTOR	01 0259	E
DAVID, G.	WASTEWATER, TREATMENT, H-COAL	01 0654	H
DAVIES, B.	WASTEWATER, TREATMENT, BIOLOGICAL, FLOTATION, CHEVRON	01 0742	H
DAVIS, F.	BOD, COD, TOC, TOD, COMPARISON, POLLUTION MEASUREMENT	01 0878	E
DAVIS, G.	H-COAL, WASTEWATER TREATMENT	01 0678	H
DAVIS, H.	WASTE, AGRICULTURAL, BIOCONVERSION, ENERGY PRODN.	01 0540	H
DEMPSEY, J.	TRACE ELEMENTS, CHROMATOGRAPHIC ANALYSIS	01 0622	H

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DESAI, S.      COAL HANDLING, WATER TRANSPORTATION, REGULATIONS          01  0427          H

DESAI, S.      MEMBRANE, WASTEWATER, DIALYSIS                            01  0542          H

DETMAN, R.     COAL GASIFICATION, HIGH BTU, ERDA-AGA                     01  0285          H

DETMAN, R.     HYGAS, LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR, DESIGN     01  0294          H

DETMAN, R.     HYGAS, LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR             01  0295          H

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DETMAN, R.     COAL GASIFICATION, METHANATION, LIST OF REPORTS           01  0593          B

DEURBROUCK, A. SULFUR, REDUCTION, COAL CLEANING                          01  0003          H

DEURBROUCK, A. COAL CLEANING, HYDROCYCLONES, EVALN.                      01  0010          H

DEURBROUCK, A. SULFUR, REDN., APPALACHIAN, COAL CLEANING                 01  0103          H

DEURBROUCK, A. COAL  CLEANING, DENSE-MEDIUM CYCLONES                     01  0326          H

DEURBROUCK, A. COAL CLEANING, STATE OF THE ART                           01  0361          E

DEURBROUCK, A. COAL CLEANING, WASHING IN A DENSE-MEDIUM CYCLONE          01  0382          H

DICKSON, E.    OIL SHALE, HYDROGEN, COAL GASIFICATION, ENVIRONMENT       01  0321          H

DIEHL, R.      TRACE ELEMENTS, MERCURY, FATE, COAL COMBUSTION            01  0159          H

DILMORE, J.    POLLUTION, COAL CLEANING, WESTINGHOUSE, COAL COMBUSTION   01  0351          H

DONATH, E      ENTRAINMENT, COAL GASIFICATION, TWO-STAGE                 01  0109          H

DORSEY, J.     ENVIRONMENT, ANALYSIS, SAMPLING, PHASED APPROACH          01  0716          H
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DOWDY, T.	FBC, ELECTRIC UTILITY LARGE STEAM GENERATORS	01 0773	H
DOWNS, W.	SRC, BABCOCK & WILCOX, STORAGE, COMBUSTION	01 0413	H
DRUMMOND, C.	HIOX, CONDENSATE WATER TREATMENT, SYNTHANE	01 0797	H
DUNC, D.	HYDROGENATION, COAL CONVERSION TO SYNTHETIC MOTOR FUELS	01 0286	H
DUNCAN, L.	REGULATIONS, POLLUTION, AIR, EMISSIONS	01 0733	H
DUNLAP, R.	CO(2) ACCEPTOR, EFFLUENTS, CHARACTERIZATION, HYGAS	01 0342	H
DUNLAP, R.	EFFLUENTS, WASTEWATER, ENVIRONMENT, COAL GASIFICATION	01 0699	H
DUNSTAN, E.	LIGNITE, ASH, SUBBITUMINOUS FLY ASH, USE IN CONCRETE	01 0345	H
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DYKSTRA, D.	WATER, DESALTING, MEMBRANE, ION EXCHANGE	01 0790	H
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ECKENFELDER, W	WASTEWATER, COAGULATION, FLOCCULATION, PRECIPITATION	01 0681	H
ECKENFELDER, W	WASTEWATER, ROLE OF SECONDARY TREATMENT	01 0776	E
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EHRENFELD, J.  COAL COMBUSTION, ENVIRONMENT, HEALTH                         01  0455          R

EICKEMEYER, A. NATURAL GAS, SOUR, SWEETENED BY CATACARB PROCESS PLANTS      01  0561          E
EICKEMEYER, A. CARBON DIOXIDE, CATALYTIC REMOVAL                            01  0562          E

ELDER, J.      ASH, TRACE ELEMENTS, ANALYSIS, LURGI, NORTH DAKOTA           01  0946          E

ELLER, J.      WASTEWATER, INDUSTRIAL, ORGANICS REMOVAL, PRETREATMENT       01  0801          E

ELLISON, W.    SCRUBBING, ABSORPTION-REDUCTION, NITROGEN OXIDES             01  0904          E

ELLMAN, R.     COAL HANDLING, STORAGE, NORTH DAKOTA, LIGNITE                01  0008          R

EMERSON, D.    COAL LIQUEFACTION, ENVIRONMENTAL ASSESSMENT                  01  0942          E

EPSTEIN, M.    SCRUBBING, LIMESTONE, EPA, ADVANCED PROGRAM                  01  0340          R

ERICKSON, R.   LEACHING, TRACE ELEMENTS, WASTE, SOLID                       01  0433          R
ERICKSON, R.   TRACE ELEMENTS, WASTE, SOLID, LEACHING                       01  0434          R
ERICKSON, R.   ENVIRONMENT, COAL CONVERSION BY-PRODUCTS, LEACHING           01  0745          E

ERTEL, C.      COAL GASIFICATION, ENERGY SUPPLY                             01  0123          E

EVANS, J.      HEALTH, COAL CONVERSION, SAFETY                              01  0544          E

FABER, J.      ASH, UTILIZATION, SYMPOSIUM                                  01  0333          R
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    FANT, B.       COAL LIQUEFACTION, EXXON, PROGRESS REPORT                01  0844        M

    FAORO, R.      TRACE ELEMENTS, AMBIENT AIR, NATIONAL TRENDS             01  0500        M

    FARNSWORTH, J. BIGAS, PP DESIGN, STATUS                                 01  0140        M

    FASS, S.       LIQUID FUEL, SNG PRODN., SRC HYDROLIQUEFACTION, PLANT    01  0814        M

    FAUCETT, H.    POWER PLANT, FIXED BED, COAL GASIFICATION, TVA           01  0485        M
    FAUCETT, H.    SLUDGE, DISPOSAL, ECONOMICS, DESULFN.                    01  0751        E
    FAUCETT, H.    POWER PLANT, INTERMEDIATE-BTU COAL GASIFICATION, TVA     01  0960        M

    FAX, G.        HEALTH, COAL CLEANING, PLANT NOISE CONTROL               01  0366        M

    FEFFNER, W.    ENERGY, DESALINATION&POWER GENERATION, BY-PRODUCT RECOVERY 01  0174      M

    FEHT, J.       WASTEWATER, US MAP                                       01  0090        M

    FELDER, R.     EMISSIONS, COAL GASIFICATION, GAS CLEANING TEST FACILITY  01  0949       E

    FELDKIRCHNER,H OIL SHALE, FUEL GAS, HYDROGASIFICATION                   01  0156        E
    FELDKIRCHNER,H COAL GASIFICATION, USING HYDROGEN AND STEAM, HIGH PRESSURE 01  0195      E

    FERRELL, J.    COAL GASIFICATION, GAS CLEANING TEST FACILITY            01  0949        E

    FILBY, R.      SRC, TRACE ELEMENTS, FATE                                01  0926        M

    FILLO, J.      PHENOL, DECOMPOSITION, SYNTHANE                          01  0514        M

    FINELT, S.     WATER, REUSE, WASTEWATER TREATMENT, REFINERY CAPACITY,COST 01  0857      E
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FLANN, G.	WASTEWATER, TREATMENT, ROTATING BIOLOGICAL SURFACE	01 0545	E
FLING, M.	SCRUBBING, TRACE ELEMENTS, TVA, DESULFN., FLUE GAS	01 0746	E
FLYNN, H.	WASTEWATER, TREATMENT, BIOX, ACTIVATED CARBON, PACT	01 0682	H
FOLEY, G.	COAL GASIFICATION, LIQUEFACTION, SYNTHETIC FUEL, ENVIRON.	01 0588	H
FORD, C.	COAL CLEANING, TRACE ELEMENTS, EFFECTS	01 0462	E
FORD, D.	WASTEWATER, OIL SEPARATION	01 0806	H
FORNEY	EFFLUENTS, TARS, CHARS, GASES, WATER, SYNTHANE PROCESS	01 0440	H
FORNEY, A.	SYNTHANE, COAL-TO-GAS PROCESS	01 0098	H
FORNEY, A.	COAL CLEANING, COKING PROPERTY, FLUID BED	01 0133	E
FORNEY, A.	TRACE ELEMENTS, SYNTHANE, GASIFIER	01 0367	H
FORNEY, A.	SYNTHANE, EFFLUENTS, ANALYSIS OF TAR, CHAR, GASES	01 0384	H
FORNEY, A.	SYNTHANE, ANALYSIS, EFFLUENTS, TAR, CHAR,GAS,BUR, OF MINES	01 0406	H
FORNEY, A.	EFFLUENTS, GASIFIER CONDITIONS, SYNTHANE	01 0503	H
FRALEY, L.	SULFUR, COMBUSTION, ASSESSMENT	01 0895	H
FRANCIS, M.	COAL GASIFICATION, TRACE ELEMENTS, FATE	01 0537	E
FRANK, M.	SRC, HIGAS, COG REFINERY, ECONOMICS, DESIGN	01 0074	E
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FRUCHTER, J.	OIL SHALE, SRC, PRODUCTS & WASTES CHARACTERIZATION	01 0628	M
FULLER, R.	SLUDGE, ACTIVATED, OXYGEN, TERTIARY ALUM TREATMENT	01 0914	E
FULLER, W.	WASTE, LAND DISPOSAL, ENVIRONMENT, SYMPOSIUM	01 0708	M
GALLOWAY, T.	WASTEWATER, EMULSIFIED OIL REMOVAL, FLOTATION, COAGULATION	01 0885	E
GAN, H.	COAL, POROSITY	01 0023	M
GANTZ, R.	SOUR WATER, STRIPPER STUDY	01 0778	E
GARBE, Y.	METAL, RECOVERY, INCINERATOR RESIDUE, WASTE, SOLID	01 0533	M
GARDNER, F.	CARBON, ACTIVATED, WASTEWATER, PURIFICATION	01 0530	M
GARRETT, R.	NATURAL GAS, FUEL, RESOURCES	01 0633	E
GASIOR, S.	COAL CLEANING, COKING QUALITY, FIXED BED	01 0134	E
GASIOR, S.	EFFLUENTS, TAR, CHAR, GAS,SYNTHANE,ANALYSIS,BUR. OF MINES	01 0406	M
GEHR, R.	FLOTATION, DISSOLVED AIR, PERFORMANCE	01 0887	E
GEHRON, R.	ENVIRONMENT, HEALTH, COAL COMBUSTION	01 0455	M
GENCO, J.	SYNTHANE, HYGAS, CO(2) ACCEPTOR, KOPPERS,	01 0329	M
GENETELLI, E.	LEACHING, WASTE, SOLID, LANDFILLS, TREATMENT	01 0712	M
GEORGE, S.	ENTRAINMENT, FLUID BED, PARTICLES, BUBBLES	01 0340	E
GESWEIN, A.	WASTE, DISPOSAL, LINERS, MEMBRANE, ASPHALT	01 0519	M

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GILLMORE, D.	COAL GASIFICATION, FIXED BED, TAR ANALYSIS	01 0218	E
GIVEN, P.	COAL LIQUEFACTION, DEPENDENCE ON COAL CHARACTERISTICS	01 0031	M
GLAZER, F.	EMISSIONS, CLEAN FUEL PRODN., POLLUTION, DESULFN.	01 0315	M
GLENN, R.	COAL GASIFICATION, TWO-STAGE, ENTRAINMENT	01 0109	M
GLENN, R.	COAL GASIFICATION, TWO-STAGE, FLOW REACTOR	01 0110	M
GLENN, R.	COAL CLEANING, PULVERIZATION	01 0111	M
GLENN, R.	COAL GASIFICATION, TWO STAGE SUPER PRESSURE, BIGAS	01 0134	M
GLOVER, T.	COAL HANDLING, UNIT TRAIN TRANSPORTATION, BUR. OF MINES	01 0418	M
GLOYNA, E.	COAGULATION, ORGANICS REMOVAL, WASTEWATER, PRETREATMENT	01 0801	E
GLUSKOTER, H.	TRACE ELEMENTS, DISTN. IN COAL	01 0665	M
GOAR, B.	DESULFN., CLAUS TAIL GAS, POLLUTION	01 0512	M
GOAR, B.	SULFUR, RECOVERY PROCESSES	01 0560	E
GOAR, B.	GAS, TREATING PROCESSES	01 0563	E
GODLOVE, J.	WASTEWATER, TREATMENT, ROTATING DISC, ENVIRONMENT	01 0657	E
GOEPPNER, J.	LEACHING, LANDFILL TREATMENT, ZERO DISCHARGE	01 0831	E
GOETZ, G.	COAL HANDLING, SRC, COAL COMBUSTION	01 0261	M

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GOLDBERG, M.	HEALTH, COAL COMBUSTION, ENVIRONMENT	01 0455	H
GOLDSTEIN, D.	WATER, CONSERVATION, WASTEWATER, TREATMENT	01 0480	H
GOLDSTEIN, D.	POWER PLANT, WATER, USE, COAL CONVERSION, STEAM-ELECTRIC	01 0683	H
GOMEZ, M.	COAL, SHALE PROPERTY FORECAST, COAL SEAMS EVALN.	01 0006	H
GOOCH, J.	BOILER, PARTICULATE COLLECTION EFFICIENCY, PRECIPITATOR	01 0769	H
GORIN, E.	SULFUR, REMOVAL, COAL CLEANING	01 0051	E
GORIN, E.	FLUID BED, MECHANICS, CO(2) ACCEPTOR	01 0127	H
GRACE, J.	FLUID BED, PARTICLES, BUBBLES, ENTRAINMENT	01 0340	E
GRAHAM, P.	LURGI, BIOLOGICAL PURIFICATION, EFFLUENTS	01 0697	E
GRAY, J.	SNG, LURGI, WESTFIELD PLANT SUCCESS	01 0798	H
GRESKOVICH, E.	SRC, COAL HANDLING, CHARACTERIZATION, REFINING	01 0241	H
GRESKOVICH, E.	SRC, LIQUID FUELS, CHARACTERIZATION, AIR PRODUCTS	01 0403	H
GRESKOVICH, E.	SRC, LIQUID FUEL, HYDRODESULFN., HYDROCRACKING, HANDLING	01 0625	H
GRIEVES, C.	CARBON, POWDERED, ACTIVATED SLUDGE IMPROVEMENT	01 0927	E
GRIFFIN, R.	TOXICITY, POLLUTANTS, SOLID COAL WASTES, SOLUBILITY	01 0957	E
GRONDOVD, G.	COAL, LIGNITE, TECHNOLOGY & USE, SCRUBBING	01 0538	H

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GRUTSCH, J.	EFFLUENTS, CONTROL, ACTIVATED SLUDGE, FILTRATION	01 0933	E
GUERIN, M	EMISSIONS, MEASUREMENT, NEEDS	01 0592	M
GUERNSEY, J.	COAL MINING, SURFACE, RECLAMATION PLANNING, INDIANA	01 0834	M
GUIRGUIS, W.	CARBON, ACTIVATED, PRE-OZONATION, WASTEWATER TREATMENT	01 0433	E
HAAS, L.	SULFUR DIOXIDE, CHEMISTRY, DESULFN., WASTE GASES	01 0729	M
HABECK, W.	COAL MINING, SURFACE, EQUIPMENT	01 0424	M
HAGER, D.	WASTEWATER, TREATMENT, ACTIVATED CARBON	01 0579	E
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HALL, E.	FBC, COAL CLEANING, COAL GASIFICATION, COAL LIQUEFACTION	01 0201	M
HALL, F.	POLLUTION, AIR QUALITY, ENERGY TECHNOLOGY	01 0328	M
HALL, H.	TRACE ELEMENTS, NITROGEN, SULFUR, POLLUTION	01 0590	M
HAM, D.	SULFUR, REMOVAL, PROCESS, FLUE GAS	01 0355	M
HAMERSMA, J.	MEYERS, DESULFN., SURVEY OF 15 COALS	01 0258	M
HAMM, J.	WESTINGHOUSE, COAL COMBUSTION, LOW-BTU GASIFIER, POLLUTION	01 0351	M
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HANGERRAUCK, R ENVIRONMENT, ASSESSMENT METHODOLOGY, FUEL CONVERSION          01 0934        E

HANKS, R.      COAL GASIFICATION, FLOW, ENTRAINMENT                          01 0243        M

HARDISTY, D.   OZONE, INDUSTRIAL WASTEWATER TREATMENT                        01 0813        E

HARIRI, H.     COAL, SOLVENT EXTN., KINETICS                                 01 0087        M

HARLESS, J.    ANALYSIS, ENVIRONMENT, COAL GASIFICATION, COAL PLANT          01 0703        M

HARRIS, H.     COAL MINING, NON-CLOGGING WATER SPRAY SYSTEM                  01 0385        M

HATFIELD, W.   METHANE, ANAEROBIC FERMENTATION                               01 0883        E

HAUSER, W.     ENVIRONMENT, COAL GASIFICATION, COAL LIQUEFACTION             01 0425        M

HAXO, H.       LEACHING, MEMBRANE, LINER EVALN.                              01 0494        M

HAYCOCKS, C.   SAFETY, COAL MINING, ROOF TRUSS                               01 0463        E

HAYNES         SYNTHANE, EFFLUENTS, TAR, CHAR, GAS + WATER ANALYSIS          01 0440        M

HAYNES, W.     SYNTHANE, GASIFIER, TRACE ELEMENTS                            01 0367        M
HAYNES, W.     EFFLUENTS, ANALYSIS OF TAR, CHAR, GASES, SYNTHANE             01 0384        M
HAYNES, W.     ANALYSIS, EFFLUENTS, TAR, CHAR, SYNTHANE                      01 0406        M

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HELLE, G.	SCRUBBING, HYDROGEN SUFIDE REGENERATION, SULFUR PRODN, RUC	01 0861	E
HELLWIG, K.	H-COAL, DEVELOPMENT, ILLINOIS COAL	01 0863	E
HELLWIG, K.	HYDROCRACKING, LIQUID FUEL FROM COAL	01 0864	R
HELLWIG, K.	H-COAL, PROCESS DEVELOPMENT	01 0865	E
HEMMINGS, P.	CORROSION, COAL GASIF./COMBUSTION, PHASE DIAGRAMS, ALLOYS	01 0840	R
HENDERSON, U.	CARBON, ACTIVATED, ADDITION TO ACTIVATED SLUDGE	01 0849	R
HENRY, J.	WASTEWATER, TREATMENT, DISSOLVED AIR FLOTATION	01 0887	E
HERMES, S.	EFFLUENTS, ORGANIC CONTAMINANTS, ENVIRONMENT	01 0299	R
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HILDEBRAND, S.	TRACE ELEMENTS, TOXICITY, COAL TO FRESHWATER BIOTA	01 0783	R
HIMES, R.	COAL LIQUEFACTION, PROCESS & EQUIPMENT, FILTRATION	01 0242	R
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JAHNIG, C.	ENVIRONMENT, EFFECTS OF COAL GASIFICATION	01 0580	E
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JOHNSON, C.	LIQUID FUEL, HYDROCRACKING OF COAL	01 0064	M
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JOHNSON, G.	BUR. OF MINES, ANALYSIS, EFFLUENTS,TAR,CHAR,GAS,SYNTHANE	01 0406	M
JOHNSON, G.	SYNTHANE, COAL GASIFICATION, CONDENSATE WATER TREATABILITY	01 0797	M
JOHNSON, L.	ANALYSIS, SAMPLING, PHASED APPROACH, ENVIRONMENT	01 0716	M
JOHNSTON, R.	COAL CLEANING, SULFUR, REDUCTION IN COAL, REVIEW	01 0252	M
JOHNSTON, R.	SULFUR, REDUCTION, COAL	01 0596	M

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KERMODE, R.	COAL LIQUEFACTION, HYDROGENATION, FLOTATION, CARBONIZATION	01 0344	M
KERMODE, R.	CARBONIZATION, FLOTATION, HYDROGEN, SYNTHETIC OIL	01 0417	M
KIRBY, M.	WASTEWATER, TREATMENT, ENVIRONMENT, ELY, MINNESOTA	01 0386	M
KIM, B.	LURGI, SYNTHANE, HYGAS, CO(2) ACCEPTOR, KOPPERS	01 0329	M
KIMMEL, S.	COAL LIQUEFACTION, DESIGN PRACTICES MANUAL, FLUOR	01 0272	M
KINDAHL, E.	COAL GASIFICATION, TVA, POWER PLANT, FIXED BED	01 0485	M
KINDEL, J.	COAL MINING, BURIAL, WASTE	01 0458	E
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KIRK, R.	WASTEWATER, TREATMENT, TERTIARY, OZONE, PP	01 0961	M
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KOEHLER, G.	DESULFN., FLUE GAS, SCRUBBING	01 0995	E
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KRAFT, M.	DESULFN., SURVEY OF 15 COALS, MEYERS	01 0258	M
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ANALYSIS, EFFLUENTS, WATER	JOLLEY, R.	01 0453	E
ANALYSIS, EMISSIONS, WASTEWATER, ENVIRONMENT		01 0704	M
ANALYSIS, ENVIRONMENT, COAL GASIFICATION, COAL PLANT	HARLESS, J.	01 0703	M
ANALYSIS, METHODS, WASTEWATER		01 0446	M
ANALYSIS, METHODS, WASTEWATER, COAL GASIFICATION	LUTHY, R.	01 0696	E
ANALYSIS, METHODS, WASTEWATER, INDUSTRIAL	DEPRATER, B.	01 0646	M
ANALYSIS, METHODS, WATER, WASTE		01 0867	M
ANALYSIS, MS-GC, WASTEWATER	ALFORD, A.	01 0391	M
ANALYSIS, PNA, ASH, COAL ASH, FLYASH, POLYCYLICS, ERDA	WHITE, C.	01 0400	M
ANALYSIS, POLLUTION CONTROL, EVALN.	MAGEE, E.	01 0301	M
ANALYSIS, SAMPLING, PHASED APPROACH, ENVIRONMENT	JOHNSON, L.	01 0716	M
ANALYSIS, TOXITY, EFFLUENTS	HO, C.	01 0461	E
ANALYSIS, TREATMENT, PHENOLICS, REFINERY WASTEWATER	DEPRATER, B.	01 0685	M
ANALYSIS, WASTEWATER, FLUE GAS, TRACE ELEMENTS	MADDALONE, R.	01 0460	M
ASH, AGGLOMERATION, COAL CHAR, GASIFICATION, HYGAS	SANDSTROM, W.	01 0337	E
ASH, CHARACTERIZATION, COAL-FIRED POWER PLANT	RAY, S.	01 0792	M
ASH, COAL ASH, FLYASH, POLYCYCLICS, ANALYSIS ,ERDA, PNA	SCHULTZ, J.	01 0400	M
ASH, DE-ASHED COAL PRODN., SOLVENT PROCESSING	KLOEPPER, D.	01 0075	M
ASH, ENVIRONMENT, TRACE ELEMENTS, SLUDGE	PARK, J.	01 0410	M
ASH, FLY ASH, BIBLIOGRAPHY, 1975-1977	SMITH, M.	01 0824	B
ASH, FLY ASH, USE IN CEMENT	BROWN, P.	01 0358	M
ASH, FLY, BIBLIOGRAPHY, 1975-1977	SMITH, M.	01 0791	B
ASH, LEACHING, ENVIRONMENT	WEETER, D.	01 0651	M
ASH, REMOVAL, ANTISOLVENT, SRC	SNELL, G.	01 0689	M

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ASH, SLUDGE, DEWATERING	MICALE, F.	01 0489	M
ASH, SRC PROCESS, ASHLESS LOW SULFUR FUEL FROM COAL		01 0071	M
ASH, SRC, LUMMUS ANTI-SOLVENT DE-ASHING COAL TECHNOLOGY	SIMONE, A.	01 0265	M
ASH, SUBBITUMINOUS FLY ASH, USE IN CONCRETE, LIGNITE	DUNSTAN, E.	01 0345	M
ASH, TRACE ELEMENTS, ANALYSIS, LURGI, NORTH DAKOTA	ELDER, J.	01 0946	E
ASH, UTILIZATION, SYMPOSIUM	FABER, J.	01 0333	M
ASH, WATER, CONTAMINATION BY HEAVY METALS	THEIS, T.	01 0601	M
ASPHALT, WASTE, DISPOSAL, LINERS, MEMBRANE	GESWEIN, A.	01 0519	M
BIBLIOGRAPHY, FLY ASH, 1975-1977	SMITH, M.	01 0791	B
BIBLIOGRAPHY, FLY ASH, 1976-1977	SMITH, M.	01 0824	B
BIBLIOGRAPHY, LIST OF NTIS SEARCHES		01 0761	B
BIGAS, CO(2) ACCEPTOR, FLOW DIAGRAMS, HYGAS, LURGI	DETMAN, R.	01 0295	M
BIGAS, CO(2) ACCEPTOR, HYGAS, LURGI, DESIGN, COST	DETMAN, R.	01 0294	M
BIGAS, COAL GASIFICATION, TWO STAGE SUPER PRESSURE	GLENN, R.	01 0139	M
BIGAS, COG REFINERY, ECONOMICS, DESIGN, SRC	SCHMID, B.	01 0074	E
BIGAS, GAS GENERATOR R&D, VOL. 1		01 0215	M
BIGAS, GAS GENERATOR R&D, VOL. 2		01 0214	M
BIGAS, GAS GENERATOR R&D, VOL. 3		01 0213	M
BIGAS, PP DESIGN, STATUS	FARNSWORTH, J.	01 0140	M
BIGAS, PP PROGRAM	HULL, D.	01 0450	M
BIGAS, SLURRY, FEEDING SYSTEM, COAL PLANT		01 0011	M
BIGAS, TECHNICAL EVALN., COAL GASIFICATION		01 0141	M
BIGAS, TWO PROCESSES, ECONOMIC COMPARISON, GASIFIER PRESS.	MANTHUS, G.	01 0848	M
BIOX, CARBON + NITROGEN REMOVAL, COKE PLANT WASTES	BARKER, J.	01 0800	M
BIOX, COAL CONVERSION CONDENSATES	WEI, I.	01 0956	E

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BIOX, CONDENSATE WATER TREATMENT, SYNTHANE	DRUMMOND, C.	01 0797	R
BIOX, PROCESS, WATER QUALITY	ROHLER, E.	01 0908	E
BIOX, WASTEWATER TREATMENT, PROCESS ECONOMICS	OLIVER, E.	01 0804	R
BOD, CHLORINE, OZONE, WATER DISINFECTION	CAPLE, R.	01 0809	R
BOD, COD, TOC, TOD, COMPARISON, POLLUTION MEASUREMENT	DAVIS, E.	01 0878	E
BOD, WASTEWATER PRETREATMENT, ECONOMICS	ADAMS, C.	01 0858	E
BOD, WASTEWATER TREATMENT, CUSTOMIZED BACTERIA	ZITRIDES, T.	01 0881	E
BOILER, APPLICATION OF FLUID BED TECHNOLOGY		01 0531	R
BOILER, CLEAN FUEL FACILITY, COMMERCIAL FEASIBILITY		01 0288	R
BOILER, CLEAN FUEL, DEMONSTRATION PLANT, DRAVO CORP.		01 0412	R
BOILER, FIELD TESTING, EMISSIONS, TRACE ELEMENTS, PNA	CATO, G.	01 0408	R
BOILER, HIGH SULFUR COMBUSTOR, ASSESSMENT	MOORE, D.	01 0895	R
BOILER, PARTICULATE COLLECTION EFFICIENCY, PRECIPI ATOR	GOOCH, J.	01 0769	R
BUR. OF MINES, ANALYSIS, EFFLUENTS,TAR,CHAR,GAS,SYNTHANE	JOHNSON, G.	01 0406	R
BUR. OF MINES, COAL CLEANING, PYRITE, SEPARATION	BRADY, G.	01 0415	R
BUR. OF MINES, COAL HANDLING, UNIT TRAIN TRANSPORTATION	HINKLE, M.	01 0418	R
BUR. OF MINES, PERC, PROGRAM FOR 1973	WENDER, I.	01 0085	R
BUR. OF MINES, SRC, LIQUID FUEL, PRODN., ECONOMICS		01 0501	R
CARBON DIOXIDE, AMMONIA, H(2)S, VOLATILITY, SOUR WATER	WILSON, G.	01 0799	R
CARBON DIOXIDE, CATALYTIC REMOVAL	EICKEMEYER, A.	01 0562	E
CARBON, ABSORPTION, WASTEWATER TREATMENT, PLANT DESIGN		01 0528	R
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CARBON, ACTIVATED, ADSORPTION PROCESS		01 0876	E
CARBON, ACTIVATED, ADSORPTION, WASTEWATER	ARCHERD, P.	01 0647	R
CARBON, ACTIVATED, ADSORPTION, WASTEWATER TREATMENT	LAWSON, C.	01 0816	E

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CARBON, ACTIVATED, PHENOL, REMOVAL, WASTEWATER	ARCHERD, P.	01 0649	M
CARBON, ACTIVATED, POWDERED, MUNICIPAL WASTEWATER TREATMNT	SHUCKROW, A.	01 0786	M
CARBON, ACTIVATED, PRE-OZONATION, WASTEWATER TREATMENT	GUIRGUIS, W.	01 0833	E
CARBON, ACTIVATED, WASTEWATER PURIFN., COKING + COAL PLANT	JUNTGEN, H.	01 0875	E
CARBON, ACTIVATED, WASTEWATER TREATMENT	HAGER, D.	01 0579	E
CARBON, ACTIVATED, WASTEWATER TREATMENT, DATA	HAGER, D.	01 0877	E
CARBON, ACTIVATED, WASTEWATER, PURIFICATION	GARDNER, F.	01 0530	M
CARBON, ACTIVATED, WASTEWATER, TREATMENT, COAL CHAR	WALKER, P.	01 0119	M
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CARBON, ACTIVATED, WESTVACO, SULFUR DIOXIDE, RECOVERY	REED, C.	01 0445	M
CARBON, ADSORPTION, DESIGN MANUAL		01 0871	M
CARBON, ADSORPTION, FILTRATION, WASTEWATER	MCCRODDEN	01 0658	M
CARBON, ADSORPTION, WASTEWATER TREATMENT, PROCESS ECONOMIC	OLIVER, E.	01 0804	M
CARBON, COAL GASIFICATION, GASIFIERS, SULFUR REMOVAL		01 0266	M
CARBON, POWDERED, ACTIVATED SLUDGE IMPROVEMENT	GRIEVES, C.	01 0927	E
CARBON, POWDERED, ACTIVATED SLUDGE IMPROVEMENT	ADAMS, A.	01 0928	E
CARBONIZATION, CLEAN COKE, PROCESS DEVELOPMENT		01 0557	M
CARBONIZATION, COAL DEVOLITIZATION, ENTRAINMENT	HOLEY, C.	01 0028	M
CARBONIZATION, COAL LIQUEFACTION, HYDROGENATION, FLOTATION	KERMODE, R.	01 0344	M
CARBONIZATION, COKING, HYDROTREATING		01 0047	M
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CATALYST, FUTURE NEEDS, ENERGY, SUPPLY	MILLS, G.	01 0135	E
CATALYST, PORE SIZE, COAL LIQUIDS, HYDRODESULFN.	SOUTER, M.	01 0233	M
CATALYST, REGENERATION, CO(2) ACCEPTOR, HYDROCRACKING		01 0032	M
CATALYST, ZINC CHLORIDE, HYDROCRACKING, GASOLINE		01 0120	M
CATALYST, ZINC CHLORIDE, REGENERATION, CONSOL		01 0170	M
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CLAUS GAS, TREATMENT	MARTHEL, Y.	01 0559	E
CLEAN COKE, PROCESS DEVELOPMENT, CARBONIZATION		01 0557	M
CLEAN COKE, SYNTHOIL, COAL LIQUEFACTION, SRC		01 0573	M
CO(2) ACCEPTOR, COAL GASIFICATION, IGT, KELLOGG	CLANCEY, J.	01 0093	E
CO(2) ACCEPTOR, EFFLUENTS, CHARACTERIZATION, HYGAS	DUNLAP, R.	01 0342	M
CO(2) ACCEPTOR, FLOW DIAGRAMS, HYGAS, LURGI, SYNTHANE	DETMAN, R.	01 0295	M
CO(2) ACCEPTOR, FLUID BED, MECHANICS	CURRAN, G.	01 0127	M
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CO(2) ACCEPTOR, IGT, LIGNITE, SNG PRODN., ECONOMICS		01 0131	M
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CO(2) ACCEPTOR, KOPPERS, PERFORMANCE STANDARDS, LURGI	CHOI, P.	01 0329	M
CO(2) ACCEPTOR, LIGNITE GASIFICATION, CONSOL		01 0448	M
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 COAL CHAR, ADSORPTION, ACTIVATED CARBON, WASTEWATER          NANDI, S.      01  0119          M
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 COAL CLEANING, COAL QUALITY, EPA STUDIES                     HOFFMAN, L.    01  0312          M
 COAL CLEANING, COG REFINERY, LOW-SULFUR FUEL                                01  0078          M
 COAL CLEANING, COKING PROPERTY, FLUID BED                    FORNEY, A.     01  0133          E
 COAL CLEANING, COKING QUALITY, FIXED BED                     GASIOR, S.     01  0134          E
 COAL CLEANING, DESULFN., IOWA COAL                           CAVALLARO, J. 01  0007          M
 COAL CLEANING, ECONOMICS, FLUOR                                             01  0421          M
 COAL CLEANING, ENVIRONMENT, OIL SHALE                                       01  0492          M
 COAL CLEANING, ENVIRONMENTAL ENGINEERING, MANUAL             NUNENKAMP, D. 01  0300          M
 COAL CLEANING, EPA, STATUS                                   LEVINE, M.     01  0347          M
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 COAL CLEANING, HYDROCRACKING, CONSOL, GASOLINE                              01  0118          M
 COAL CLEANING, HYDROCYCLONES, EVALN.                         DEURBROUCK, A.01  0010          M
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COAL CLEANING, PLANT NOISE CONTROL, HEALTH	UNGAR, E.	01 0366	M
COAL CLEANING, POWER PLANT, FBC	BLACKWOOD, T.	01 0017	M
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COAL CLEANING, PROCESS EVALN., PYRITE, REMOVAL		01 0327	M
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COAL CLEANING, SIZE PREPN., STORAGE	MATONEY, J.	01 0467	E
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COAL CLEANING, SULFUR, REDUCTION	DEURBROUCK, A.	01 0003	M
COAL CLEANING, SULFUR, REDUCTION IN COAL, REVIEW	JOHNSTON, M.	01 0252	M
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COAL COMBUSTION, MHD GENERATION, FEASIBILITY	HOOVER, D.	01 0180	M
COAL COMBUSTION, MHD GENERATION, FEASIBILITY	HOOVER, D.	01 0181	M
COAL COMBUSTION, MHD GENERATION, FEASIBILITY	HOOVER, D.	01 0182	M
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COAL CONVERSION, ENERGY SUPPLY & ENVIRON. COORDINATN. ACT		01 0847	M
COAL CONVERSION, ENVIRONMENT, FEA STUDY		01 0377	M
COAL CONVERSION, GASOLINE PRODN., GULF PROCESS	LOPEZ, J.	01 0818	M
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COAL GASIFICATION, HIGAS, TECHNICAL EVALN.		01 0141	M
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COAL GASIFICATION, COKING COAL, FIXED-BED GASIFIER	GILLMORE, D.	01 0216	E
COAL GASIFICATION, COKING COAL, FIXED-BED GASIFIER	LIBERATORE, A.	01 0217	E
COAL GASIFICATION, COST EST., IN SITU	STEPHENS, D.	01 0029	M
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COAL GASIFICATION, ECONOMICS, FUEL GAS		01 0228	M
COAL GASIFICATION, EL PASO, ENVIRONMENT		01 0022	M
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COAL GASIFICATION, ENVIRONMENT, IN-SITU	CAMPBELL, J.	01 0452	R
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COAL GASIFICATION, ERDA, REPORT		01 0311	R
COAL GASIFICATION, FIXED BED, ANALYSES OF GRAB SAMPLES	BOMBAUGH, K.	01 0788	R
COAL GASIFICATION, FIXED BED, TAR ANALYSIS	GILLMORE, D.	01 0218	E
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COAL GASIFICATION, HYDROGEN PRODN., LIQUEFACTION RESIDUES	ROBIN, A.	01 0526	R
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COAL GASIFICATION, INTERMEDIATE-BTU, RETROFIT POWER PLANT	WAITZMAN, D.	01 0960	R

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COAL GASIFICATION, LIQUEFACTION, SYNTHETIC FUEL, ENVIRON.	FOLEY, G.	01 0588	H
COAL GASIFICATION, LIQUEFACTION, TECHNOLOGY, VOL. 2	WERNER, K.	01 0256	H
COAL GASIFICATION, LOW-BTU, CURRENT EVENTS SUMMARY	HOOVER, M.	01 0787	E
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COAL GASIFICATION, PROCESS EVALN., GENERATOR		01 0106	M
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FLUID BED, MECHANICS, CO(2) ACCEPTOR	GORIN, E.	01 0127	H
FLUID BED, PARTICLES, BUBBLES, ENTRAINMENT	GRACE, J.	01 0340	E
FLUID BED, PYROLYSIS, INDUCTION PLASMA		01 0179	H
FLUORIDES, REMOVAL, COAGULATION, LIME PRECIPITATION	MILLER, J.	01 0910	E
FUEL CELL, DIRECT USE OF COAL, MOLTEN SALT	TIETZ, L.	01 0389	H
FUEL GAS, COAL GASIFICATION, ECONOMICS		01 0228	H
FUEL GAS, CRUDE OIL, PRODN. BY COAL PROCESSING	TERZIAN, H.	01 0515	E
FUEL GAS, DESULFN., LOW-BTU	KOCH, B.	01 0677	H
FUEL GAS, EFFLUENTS, ENTRAINMENT, COAL GASIFICATION	MURPHY, B.	01 0469	H
FUEL GAS, ENVIRONMENT, KOPPERS, EVALN.	ROBSON, F.	01 0398	H
FUEL GAS, GAS STREAM CONTROL TECH., POLLUTANTS	HOFFERT, F.	01 0899	H

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                      SUBJECT                                     AUTHOR       ACCESSION     TYPE OF
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 FUEL GAS, HYDROGASIFICATION, BITUMINOUS COAL                   KNABEL, S.     01  0162          M
 FUEL GAS, HYDROGASIFICATION, BITUMINOUS COAL                   TSAROS, C.     01  0163          M
 FUEL GAS, HYDROGASIFICATION, ELECTROTHERMAL, LIGNITE           ARORA, J.      01  0164          M
 FUEL GAS, HYDROGASIFICATION, OIL SHALE                         LINDEN, H.     01  0156          E
 FUEL GAS, HYDROGENATION, PP DEVELOPMENT, HYGAS                                01  0210          M
 FUEL GAS, HYDROGENATION, 4-INCH PDU, HYGAS                                    01  0209          M
 FUEL GAS, LIGNITE, GASIFICATION, ECONOMICS                     LINDAHL, D.    01  0167          M
 FUEL GAS, LIGNITE, GASIFICATION, FEASIBILITY STUDY                            01  0168          M
 FUEL GAS, LIQUID FUEL, GASIFICATION, NUCLEAR HEAT                             01  0173          M
 FUEL GAS, METHANATION, COAL CHAR, COAL CLEANING, HYGAS                        01  0211          M
 FUEL GAS, PRODN. FROM OIL SHALE, HIGH PRESSURE                 TSAROS, C.     01  0186          E
 FUEL GAS, PRODN., HYDROGASIFICATION, BITUMINOUS COAL           KNABEL, S.     01  0193          M
 FUEL GAS, SULFUR, REMOVAL                                      ALLEN, C.      01  0270          M
 FUEL GAS, SYNTHESIS GAS, SPENT CHAR, HYDROGASIFICATION         TSAROS, C.     01  0161          M
 FUEL OIL, PRODN., HYDRODESULFN., COAL                          YAVORSKY, P.   01  0081          M
 FUEL, AUTOMOBILES, ALTERNATIVES, FEASIBILITY                   KANT, F        01  0387          M
 FUEL, AVIATION TURBINE, PRODN. FROM CRUDE OIL                  KALFADELIS, C.01  0362          M
 FUEL, AVIATION, FROM COAL, TESTING                             NOWACK, C.     01  0396          M
 FUEL, CLEAN, BOILER, DEMONSTRATION PLANT                                      01  0412          M
 FUEL, MIXED, INDUSTRIAL USE, WASTE                             MATHUR, G.     01  0719          M
 FUEL, RESOURCES, NATURAL GAS                                   GARRETT, R.    01  0633          E
 FUEL, SOLID WASTE CONVERSION                                   JONES, J.      01  0890          E
 FUEL, SYNTHETIC, EPA, STATUS                                   TRUETT, B.     01  0588          M
 GAS, CLEANING, MERC GASIFIER, SCRUBBING                        MOORE, A.      01  0616          M
 GAS, FROM COAL                                                 CHOPEY, N.     01  0569          E
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GAS, GENERATOR R+D, EVALN.		01 0107	H
GAS, PURIFICATION PROCESSES	KOHL, A.	01 0564	E
GAS, TREATING PROCESSES	GOAR, B.	01 0563	E
GASEOUS FUEL, FROM WASTE, LIQUID FUEL	LEHMANN, E.	01 0470	B
GASOLINE, CATALYST REGENERATION, CONSOL, HYDROCRACKING		01 0032	H
GASOLINE, CATALYST, ZINC CHLORIDE, HYDROCRACKING		01 0120	H
GASOLINE, COAL CLEANING, HYDROCRACKING, CONSOL		01 0118	H
GASOLINE, CONVERSION TO, METHANOL	WISE, J.	01 0281	H
GASOLINE, PRODN., COAL CONVERSION, GULF PROCESS	CRONAUER, D.	01 0818	H
H-COAL, COAL LIQUEFACTION, CHEMICALS PRODUCED	PETERS, H.	01 0599	H
H-COAL, COAL LIQUIDS, CHARACTERIZATIONS	HOLMES, S.	01 0490	H
H-COAL, COAL PLANT, LAB STUDY		01 0662	H
H-COAL, COMMERCIAL PLANT DESIGN		01 0172	H
H-COAL, DEVELOPMENT, ILLINOIS COAL	HELLWIG, K.	01 0063	E
H-COAL, ENERGY RESEARCH PANEL		01 0062	E
H-COAL, INTEGRATED PP LAB STUDY		01 0277	H
H-COAL, INTEGRATED PP, HYDROCARBON RESEARCH, FINAL REPORT.		01 0811	H
H-COAL, KENTUCKY PP		01 0073	E
H-COAL, LIQUID FUEL, ECONOMICS		01 0507	H
H-COAL, POLLUTION CONTROL, EVALN.	JAHNIG, C.	01 0219	H
H-COAL, PROCESS DEVELOPMENT		01 0061	H
H-COAL, PROCESS DEVELOPMENT	HELLWIG, K.	01 0065	E
H-COAL, PROCESS EVALN., PLANT SITE		01 0171	H
H-COAL, PROJECT EVALN.	CONN, A.	01 0069	H
H-COAL, SCALE-UP FACTORS	JOHNSON, C.	01 0060	E

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H-COAL, SRC, FILTRATION, DESIGN		01 0602	M
H-COAL, SRC, SYNTHOIL, LIQUID FUEL, COAL LIQUIDS	HENDORAITIS, J.	01 0251	M
H-COAL, STATUS, COAL LIQUEFACTION, SRC	WELLMAN, P.	01 0465	E
H-COAL, SYNCRUDE AS FEEDSTOCK, CHEMICALS FROM COAL	PETERS, B.	01 0770	M
H-COAL, WASTEWATER TREATMENT	DAVIS, G.	01 0678	M
H-COAL, WASTEWATER, TREATMENT	REAP, E.	01 0654	M
H-COAL, WESTERN COAL CONVERSION	JOHNSON, C.	01 0070	E
H-COAL, WYODAK & ILLINOIS COAL, ECONOMICS		01 0244	M
HEALTH, ARSENIC, TOXICITY		01 0308	M
HEALTH, CARBONYLS, COAL GASIFICATION, PRESENT IN NATURAL	SIROHI, V.	01 0687	M
HEALTH, COAL CLEANING, PLANT NOISE CONTROL	FAX, G.	01 0366	M
HEALTH, COAL COMBUSTION, ENVIRONMENT	GOLDBERG, M.	01 0455	M
HEALTH, COAL CONVERSION, SAFETY	EVANS, J.	01 0544	E
HEALTH, COAL CONVERSION, TRW, CARCINOGENS		01 0404	M
HEALTH, ENERGY, SUPPLY & USE, PART 1, ENVIRONMENT		01 0041	M
HEALTH, ENERGY, SUPPLY & USE, PART 2, ENVIRONMENT		01 0042	M
HEALTH, ENVIRONMENT, COAL CONVERSION		01 0553	M
HEALTH, EPA, RESEARCH OUTLOOK, ENVIRONMENT		01 0509	M
HEALTH, INDUSTRIAL HYGIENE, SRC, PP		01 0795	M
HEALTH, POLLUTION CONTROL, REGULATIONS		01 0416	M
HEALTH, SRC, LURGI, EMISSIONS, HAZARDOUS, COKING	OXLEY, J.	01 0037	M
HEALTH, STANDARDS, WATER		01 0634	M
HEAT EXCHANGER, PLASTIC SHEETS IMBEDDED IN PEBBLES	ST. CLAIR, J.	01 0198	I
HYDROCRACKING, CONSOL, GASOLINE, COAL CLEANING		01 0118	M
HYDROCRACKING, GASOLINE, CATALYST REGENERATION, CONSOL		01 0032	M

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HYDROCRACKING, GASOLINE, CATALYST, ZINC CHLORIDE		01 0120	M
HYDROCRACKING, LIQUID FUEL FROM COAL	HELLWIG, K.	01 0064	M
HYDRODESULFN., CATALYST, PORE SIZE, COAL LIQUIDS	SOOTER, M.	01 0233	M
HYDRODESULFN., COAL LIQUIDS, SULFUR	CHIRAKAPARAMBI	01 0231	M
HYDRODESULFN., COAL, FUEL OIL PRODN.	YAVORSKY, P.	01 0081	M
HYDROGASIFICATION, BITUMINOUS COAL, FUEL GAS	TSAROS, C.	01 0162	M
HYDROGASIFICATION, BITUMINOUS COAL, FUEL GAS PRODN.	TSAROS, C.	01 0193	M
HYDROGASIFICATION, BITUMINOUS COAL, STEAM-IRON PROCESS	KNABEL, S.	01 0163	M
HYDROGASIFICATION, DEVELOPMENT STATUS, IGT	SCHORA, F.	01 0196	E
HYDROGASIFICATION, ELECTROTHERMAL, LIGNITE, FUEL GAS	TSAROS, C.	01 0164	M
HYDROGASIFICATION, FUEL GAS, SYNTHESIS GAS, SPENT CHAR	KNABEL, S.	01 0161	M
HYDROGASIFICATION, OIL SHALE, FUEL GAS	LINDEN, H.	01 0156	E
HYDROGEN SULFIDE, ABSORPTION FROM TAIL GAS	KRILL, H.	01 0558	E
HYDROGEN SULFIDE, AMMONIA, CO(2), VOLATILITY, SOUR WATER	WILSON, G.	01 0799	M
HYDROGEN SULFIDE, CONTROL, SEWERAGE SYSTEM, DESIGN MANUAL		01 0872	M
HYDROGEN SULFIDE, REMOVAL, HOLMES-STRETFORD PROCESS	VASAN, S.	01 0889	E
HYDROGEN SULFIDE, SOUR WATER STRIPPING		01 0874	M
HYDROGEN, COAL AS SOURCE OF, AMMONIA PRODN.	LAUKHUF, W.	01 0273	M
HYDROGEN, COAL GASIFICATION, ENVIRONMENT, OIL SHALE	SCHMIDT, R	01 0321	M
HYDROGEN, PRODN., COAL GASIFICATION	CAVAGNARO, D.	01 0262	M
HYDROGEN, PRODN., LIQUEFACTION RESIDUES, COAL GASIFICATION	ROBIN, A.	01 0526	M
HYDROGEN, STORAGE & PURIFICATION SYSTEMS	REILLY, J.	01 0282	M
HYDROGEN, SYNTHETIC OIL, CARBONIZATION, FLOTATION	KERMODE, R.	01 0417	M
HYDROGENATION, COAL CONVERSION TO SYNTHETIC MOTOR FUELS	DUNC, D.	01 0286	M
HYDROGENATION, COAL, HEALTH HAZARDS, SAFETY	SEXTON, R.	01 0447	E

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HYDROGENATION, FLOTATION, CARBONIZATION, COAL LIQUEFACTION	KERMODE, M.	01 0344	M
HYDROGENATION, OXYGEN, COAL GASIFICATION	JOHANSON, E.	01 0066	E
HYDROGENATION, PP DEVELOPMENT, HYGAS, FUEL GAS		01 0210	M
HYDROGENATION, WESTERN COAL, DILUTE PHASE, LIQUID FUEL		01 0206	M
HYDROGENATION, 4-INCH PDU, HYGAS, FUEL GAS		01 0209	M
HYDROGENERATION, COAL, CATALYST, LIQUID FUEL	GADER, S.	01 0088	E
HYDROTREATING, CARBONIZATION, COKING		01 0047	M
HYDROTREATING, COKING, POWER PLANT		01 0046	M
HYDROTREATING, PNA, PROJECT SEACOKE		01 0045	M
HYGAS, ASH, AGGLOMERATION, COAL CHAR, GASIFICATION	BAIR, W.	01 0337	E
HYGAS, CO(2) ACCEPTOR, EFFLUENTS, CHARACTERIZATION	MASSEY, M.	01 0342	M
HYGAS, CO(2) ACCEPTOR, KOPPERS, PERFORMANCE STANDARDS	OXLEY, J.	01 0324	M
HYGAS, COAL GASIFICATION, PROPERTIES		01 0150	M
HYGAS, COMMERCIAL PLANT DESIGN, ECONOMICS		01 0212	M
HYGAS, DEVELOPMENT BY IGT.	HUEBLER, J.	01 0144	E
HYGAS, ELECTROTHERMAL PROCESS, COSTS	TSAROS, C.	01 0192	M
HYGAS, FUEL GAS, HYDROGENATION, PP DEVELOPMENT		01 0210	M
HYGAS, FUEL GAS, HYDROGENATION, 4-INCH PDU		01 0209	M
HYGAS, FUEL GAS, INTERIM REPORT		01 0223	M
HYGAS, FUEL GAS, METHANATION, COAL CHAR, COAL CLEANING		01 0211	M
HYGAS, LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR	DETMAN, R.	01 0295	M
HYGAS, LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR, DESIGN	DETMAN, R.	01 0294	M
HYGAS, PLANT DESIGN		01 0189	E
HYGAS, POLLUTION CONTROL, EVALN.	JAHNIG, C.	01 0207	M
HYGAS, POWER PLANT, FUEL GAS PRODN.	MATTHEWS, C.	01 0197	E

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HYGAS, PP DEDICATION		01 0185	E
HYGAS, PP, OPERATING DATA	LEE, M.	01 0191	E
HYGAS, PROCESS EVALN., PROGRESS REPORTS		01 0591	M
HYGAS, TRACE ELEMENTS, COAL GASIFICATION	PAU, J.	01 0673	M
HYGAS, WASTEWATER, TREATMENT, BIOLOGICAL OXIDN., PHENOL	LUTHY, R.	01 0755	M
IGT, COAL GASIFICATION, PROGRAMS	SCHORA, F.	01 0190	M
IGT, DIRECTOR'S REPORT, 1971		01 0188	M
IGT, LIGNITE, SNG PRODN., ECONOMICS, CO(2) ACCEPTOR		01 0131	M
IGT, LIST OF PUBLICATIONS		01 0187	M
IGT, TRACE ELEMENTS, DISTN. IN PROCESS STREAMS	ATTARI, A.	01 0479	E
KINETICS, CYANIDE, WASTEWATER, COMPLEXES	MELNYK, P.	01 0684	M
KOPPERS, EVALN., FUEL GAS, ENVIRONMENT	COLTON, C.	01 0398	M
KOPPERS, PERFORMANCE STANDARDS, LURGI, SYNTHANE, HYGAS	KIM, B.	01 0329	M
KOPPERS, POLLUTION CONTROL, EVALN.	MAGEE, E.	01 0304	M
LEACHING, COAL ASH, ENVIRONMENT	WEETER, D.	01 0651	M
LEACHING, COAL PILE, CHARACTERISTICS	ANDERSON, W.	01 0922	E
LEACHING, DAMAGE EVALN., SOLID WASTE, IN-SITU		01 0547	M
LEACHING, DAMAGE EVALN., SOLID WASTE, IN-SITU		01 0548	M
LEACHING, DESULFN., LOW TEMPERATURE PROCESSES	MENDIZABAL, E.	01 0435	M
LEACHING, ENVIRONMENTAL EFFECTS	VAN METER, W.	01 0444	M
LEACHING, LANDFILL TREATMENT, ZERO DISCHARGE	GOEPPNER, J.	01 0831	E
LEACHING, MEMBRANE, LINER EVALN.	HAXO, H.	01 0494	M
LEACHING, POLLUTION, WASTEWATER, POWER PLANT, FLUE GAS	ROSSOFF, J.	01 0709	M
LEACHING, SORPTION CAPABILITY OF VARIOUS MATERIALS	CHAN, P.	01 0862	E
LEACHING, SRC, HYDROGENATION, COAL LIQUEFACTION, BATTELLE		01 0018	M

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LEACHING, TRACE ELEMENTS, WASTE, SOLID	ERICKSON, R.	01 0433	M
LEACHING, TRACE ELEMENTS, WASTE, SOLID	VAN METER, W.	01 0434	M
LEACHING, TREATMENT PLANT, DEMONSTRATION	STEINER, R.	01 0652	M
LEACHING, WASTE, SOLID, LANDFILLS, TREATMENT	GENETELLI, E.	01 0712	M
LEACHING, WASTE, USES, FLY ASH		01 0443	M
LEACHING,ENVIRONMENT, COAL CONVERSION BY-PRODUCTS	VAN METER, W.	01 0745	E
LIGNITE, ASH, SUBBITUMINOUS FLY ASH, USE IN CONCRETE	DUNSTAN, E.	01 0345	M
LIGNITE, CO(2) ACCEPTOR, GASIFICATION, ECONOMICS	CLANCEY, J.	01 0167	M
LIGNITE, COAL HANDLING, STORAGE, NORTH DAKOTA	SONDREAL, E.	01 0008	M
LIGNITE, FUEL PRODN., SRC, COAL PLANT		01 0039	M
LIGNITE, GASIFICATION, CO(2) ACCEPTOR	CLANCEY, J.	01 0125	E
LIGNITE, GASIFICATION, FEASIBILITY STUDY, FUEL GAS		01 0168	M
LIGNITE, IGT REPORT		01 0199	M
LIGNITE, SNG PRODN., COAL GASIFICATION	CLANCEY, J.	01 0124	E
LIGNITE, SNG PRODN., ECONOMICS, CO(2) ACCEPTOR, IGT		01 0131	M
LIGNITE, TEXAS DEVELOPMENT, ENVIRONMENTAL OVERVIEW		01 0671	M
LIQUID FUEL, CHARACTERIZATION, HANDLING, SRC	COLLURA, M.	01 0274	M
LIQUID FUEL, COAL HYDROGENERATION, CATALYST	WOOD, R.	01 0086	E
LIQUID FUEL, COAL LIQUIDS, H-COAL, SRC, SYNTHOIL	STEIN, T.	01 0251	M
LIQUID FUEL, CONSOL PP, DESIGN, CONSTRUCTION, OPERATION	SCHROEDER, W.	01 0049	M
LIQUID FUEL, ECONOMICS, H-COAL		01 0507	M
LIQUID FUEL, ENVIRONMENT, COAL LIQUEFACTION	MAY, V.	01 0471	E
LIQUID FUEL, ENVIRONMENT, SNG	HEYCHUK, M.	01 0728	M
LIQUID FUEL, GASEOUS FUEL, FROM WASTE	HUNDEMANN, A.	01 0470	B
LIQUID FUEL, GASIFICATION, NUCLEAR HEAT, FUEL GAS		01 0173	M

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LIQUID FUEL, HYDROCRACKING OF COAL	JOHNSON, C.	01	0064	M
LIQUID FUEL, HYDRODESULFN., HYDROCRACKING, HANDLING, SRC	GRESKOVICH, E.	01	0625	M
LIQUID FUEL, HYDROGENATION, WESTERN COAL, DILUTE PHASE		01	0204	M
LIQUID FUEL, LITTLE, A.D., COKING, EXTRACTIVE	WEBER, S.	01	0401	M
LIQUID FUEL, PRODN., ECONOMICS, BUR. OF MINES, SRC		01	0501	M
LIQUID FUEL, SNG PRODN., SRC HYDROLIQUEFACTION, PLANT	FASS, S.	01	0814	M
LIQUID FUEL, SNG, LNG, PROCESS	HEYCHUK, M.	01	0702	M
LIQUID FUEL, SOLID FUEL, PREPN. FROM COAL		01	0001	M
LNG, PROCESS, LIQUID FUELS, SNG	HEYCHOK, M.	01	0702	M
LURGI, BIOLOGICAL PURIFICATION, EFFLUENTS	GRAHAM, P.	01	0697	E
LURGI, COAL GASIFICATION, PHENOSOLVAN PROCESS	HEYCHUK, M.	01	0830	E
LURGI, DESIGN, COAL PLANT		01	0692	M
LURGI, EMISSIONS, HAZARDOUS, COKING, HEALTH, SRC	TAM, S.	01	0037	M
LURGI, EVALN., POLLUTION, CONTROL	MAGEE, E.	01	0035	M
LURGI, GASIFICATION REACTOR, DESIGN	YOON, H.	01	0341	E
LURGI, GASIFIER, AMERICAN COALS, WESTFIELD SCOTLAND		01	0143	M
LURGI, NEW SOURCE PERFORMANCE STANDARDS	SINOR, J.	01	0552	M
LURGI, SNG, WESTFIELD PLANT SUCCESS	GRAY, J.	01	0798	M
LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR, DESIGN, COST	DETMAN, R.	01	0294	M
LURGI, SYNTHANE, BIGAS, CO(2) ACCEPTOR, FLOW DIAGRAMS	DETMAN, R.	01	0295	M
LURGI, SYNTHANE, HYGAS, CO(2) ACCEPTOR, KOPPERS	KIM, B.	01	0329	M
LURGI, 250 MILLION SCFD GAS PLANT, ECONOMICS		01	0390	M
MEMBRANE, ASPHALT, WASTE, DISPOSAL, LINERS	GESWEIN, A.	01	0519	M
MEMBRANE, COAL CONVERSION	SCHELL, W.	01	0626	M
MEMBRANE, ION EXCHANGE, DESALTING PROCESSES	CURRAN, H.	01	0790	M

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MEMBRANE, LINER EVALN., LEACHING	WHITE, H.	01 0494	M
MEMBRANE, SLUDGE, POWER PLANT, WASTEWATER, REUSE	WELCH, P.	01 0517	E
MEMBRANE, WASTEWATER, DIALYSIS	DESAI, S.	01 0542	M
MEMBRANE, WATERWATER, PHENOL, REMOVAL		01 0759	E
METAL, ALLOYS, CORROSION, PHASE STABILITY DIAGRAMS	PERKINS, R.	01 0840	M
METAL, RECOVERY, INCINERATOR RESIDUE, WASTE, SOLID	GARBE, Y.	01 0533	M
METAL, SEPARATION, ION EXCHANGE	CALMON, C.	01 0907	E
METHANATION, COAL CHAR, COAL CLEANING, HYGAS, FUEL GAS		01 0211	M
METHANATION, HOT-GAS RECYCLE, EVALN., COAL GASIFICATION		01 0137	M
METHANATION, LIQUID PHASE		01 0002	M
METHANATION, LIQUID PHASE		01 0284	M
METHANATION, LIST OF REPORTS, COAL GASIFICATION	DETMAN, R.	01 0593	B
METHANATION, SINGLE-STAGE TUBE WALL, COAL GASIFICATION		01 0138	M
METHANATION, TUBE WALL, SYNTHANE	CHEN, J.	01 0136	E
METHANATION, WET, EVALN.	BRAUN, C.	01 0667	M
METHANE, ANAEROBIC FERMENTATION	HATFIELD, W.	01 0843	E
METHANE, EPA, WASTE, SOLID, SLUDGE, ANAEROBIC DIGESTION	WITTE, S.	01 0491	M
METHANOL, COAL GASIFICATION, PLANT DESIGN		01 0660	M
METHANOL, CONVERSION TO GASOLINE	VOLTZ, S.	01 0281	M
MEYERS, DESULFN., PROCESS DEVELOPMENT	KOUTSOUKOS, F.	01 0276	M
MEYERS, DESULFN., SURVEY OF 15 COALS	HAMERSMA, J.	01 0258	M
MEYERS, PHYSICAL ASPECTS, PROCESSES, COAL CLEANING		01 0275	M
MEYERS, POLLUTION CONTROL, EVALN.	MAGEE, E.	01 0297	M
MOLTEN SALT, FUEL CELL, DIRECT USE OF COAL	WEAVER, R.	01 0389	M
MOLTEN SALT, SCRUBBING	LESSING, L.	01 0044	E

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MOLTEN SALT, SCRUBBING, EMISSIONS, PROCESS	OLDENKAMP, R.	01 0116	E
MOLTEN SALT, SCRUBBING, EMISSIONS, PROCESS		01 0117	M
NATURAL GAS, COAL LIQUEFACTION, ERDA PROGRAM		01 0539	M
NATURAL GAS, FUEL, RESOURCES	GARRETT, H.	01 0633	E
NATURAL GAS, SOUR, SWEETENED BY CATACARB PROCESS PLANTS	EICKEMEYER, A.	01 0561	E
NATURAL GAS, SURVEY		01 0149	M
NITROGEN OXIDES, ABSORPTION-REDUCTION SCRUBBING	SEKIYA, T.	01 0904	E
NITROGEN OXIDES, EMISSIONS FROM FIXED FIREBOXES	SIDDIQI, A.	01 0578	E
NITROGEN OXIDES, POLLUTION CONTROL, AICHE SYMPOSIUM	SAROFIM, A.	01 0902	E
NITROGEN OXIDES, POLLUTION CONTROL, CONFERENCE		01 0901	E
NITROGEN, CONTROL, WASTEWATER TREATMENT, DESIGN MANUAL		01 0869	M
NITROGEN, OZONE EFFECT ON EFFLUENTS	WACHS, A.	01 0925	E
NITROGEN, REMOVAL, COAL LIQUIDS	SATCHELL, D.	01 0232	M
NITROGEN, REMOVAL, WASTEWATER		01 0497	M
NITROGEN, REMOVAL, WASTEWATER		01 0498	M
NITROGEN, ROLE IN ACTIVATED SLUDGE	WU, Y.	01 0921	E
NITROGEN, SULFUR, POLLUTION, TRACE ELEMENTS	VARGA, G.	01 0590	M
OIL SHALE, COAL CLEANING, ENVIRONMENT		01 0492	M
OIL SHALE, COAL CLEANING, SCRUBBING, WASTEWATER		01 0734	M
OIL SHALE, DISPOSAL, PARAHO, DEVELOPMENT ENGINEERING	HOLTZ, W.	01 0504	M
OIL SHALE, ENVIRONMENT, MEETING		01 0369	M
OIL SHALE, ERDA, COAL, ENERGY, REPORT		01 0310	M
OIL SHALE, FUEL GAS, HYDROGASIFICATION	FELDKIRCHNER, H.	01 0156	E
OIL SHALE, HYDROGEN, COAL GASIFICATION, ENVIRONMENT	DICKSON, E.	01 0321	M
OIL SHALE, PIPELINE GAS PRODN., HIGH PRESSURE	TSAROS, C.	01 0186	E

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OIL SHALE, RETORTING, IN SITU	HURWELL, E	01 0004	H
OIL SHALE, SRC, PRODUCTS & WASTES CHARACTERIZATION	FRUCHTER, J.	01 0628	H
OIL SHALE, TAR SANDS	SMITH, J.	01 0516	E
OIL SHALE, TAR SANDS, PROCESS EVALN.		01 0222	H
OIL SHALE, TAR SANDS, WESTERN STATES, COAL MINING	CORSENTINO, J.	01 0484	H
OIL SHALE, TAR, CHEMISTRY + TECHNOLOGY	ZELENIN, N.	01 0449	H
OIL SHALE, WASTEWATER, RECLAMATION, METHOD	HUBBARD, A.	01 0431	E
OIL, METAL CONTAINING WASTEWATER, TREATMENT	FORD, D.	01 0806	H
OIL, SEPARATION FROM WASTEWATER	LAWSON, J.	01 0807	E
OIL, WATER, SEPARATOR, GRAVITY, DESIGN	THOMSON, S.	01 0882	E
OXYGEN, ACTIVATED SLUDGE, FMC PROCESS	STETZER, R.	01 0915	E
OXYGEN, BOD, COD, TOC, TOD, POLLUTION MEASUREMENT	DAVIS, E.	01 0878	E
OXYGEN, DISSOLVED, USE IN ACTIVATED SLUDGE	STEIMLE, S.	01 0911	E
OXYGEN, PURE, ACTIVATED SLUDGE	PALLANICH, P.	01 0913	E
OZONE, ACTIVATED CARBON, PRE-OZONATION, WASTEWATER TREAT.	COOPER, T.	01 0833	E
OZONE, CHLORINE, WATER DISINFECTION, CHEM/BIOLOGICAL EFF.	CARLSON, R.	01 0809	H
OZONE, COAL GASIFICATION PLANT WASTEWATER, TREATMENT	NEUFELD, R.	01 0864	E
OZONE, EFFECT ON NITROGEN IN EFFLUENTS	NARKIS, N.	01 0925	E
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PARAHO, DEVELOPMENT ENGINEERING, OIL SHALE, DISPOSAL	HOLTZ, W.	01 0504	H
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          PHENOL, REFINERY WASTEWATER, ANALYSIS, TREATMENT        SHORT, T.      01  0685        M
          PHENOL, REMOVAL, HYGAS, WASTEWATER, TREATMENT           LUTHY, R.      01  0755        M
          PHENOL, REMOVAL, MEMBRANE, WASTEWATER                                  01  0759        E
          PHENOL, REMOVAL, WASTEWATER                             WIESNER, P.    01  0595        I
          PHENOL, REMOVAL, WASTEWATER, ACTIVATED CARBON           ARCHERD, P.    01  0649        M
          PHENOL, REMOVAL, WASTEWATER, STATE-OF-ART               SYLVESTER, N.  01  0642        M
          PHENOL, WASTE TREATMENT                                 KLEMETSON, S.  01  0954        E
          PHENOL, WASTE TREATMENT, ACTIVATED SLUDGE               ADAMS, C.      01  0963        E
          PHENOL, WASTE, TREATMENT, TRICKLING FILTERS             JOYCE, T.      01  0478        E
          PHENOL, WASTEWATER CONTAMINANTS, CONTROL                SINGER, P.     01  0794        M
          PHENOL, WASTEWATER, PROCESSING, SYMPOSIUM                              01  0669        E
          PNA, ANALYSIS, ASH, COAL ASH, FLYASH, POLYCYCLICS, ERDA SHARKEY, A.    01  0400        M
          PNA, BOILERS, FIELD TESTING, EMISSIONS, TRACE ELEMENTS  CATO, G.       01  0408        M
          PNA, PROJECT SEACOKE, HYDROTREATING                                    01  0045        M
          PNA, WASTEWATER CONTAMINANTS, CONTROL                   SINGER, P.     01  0794        M
          POLLUTION, AIR QUALITY, ENERGY TECHNOLOGY               HALL, E.       01  0328        M
          POLLUTION, AIR, CONTROL SYSTEMS, COSTS                  KINKLEY, M.    01  0639        M
          POLLUTION, AIR, CONTROL, AICHE SYMPOSIUM                COUGHLIN, R.   01  0902        E
          POLLUTION, AIR, DAMAGE, ECONOMICS                       LIU, B.        01  0290        M
          POLLUTION, AIR, DATA PROCESSING SYSTEMS                                01  0335        M
          POLLUTION, AIR, EFFECT ON VEGETATION, ENVIRONMENT       CROCKETT, P.   01  0506        B
          POLLUTION, AIR, EMISSIONS, REGULATIONS                  DUNCAN, L.     01  0733        M
          POLLUTION, AIR, EMISSIONS, VISIBLE, EVALN.              STEIN, A.      01  0535        M
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POLLUTION, AIR, HIGH TEMPERATURE, PARTICLE REMOVER	KEEL, K.	01 0621	E
POLLUTION, AIR, NORTHERN GREAT PLAINS, REGULATIONS		01 0314	M
POLLUTION, AIR, PARTICULATE CONTROL, HIGH TEMP. & PRESSURE	KENNEDY, R.	01 0640	M
POLLUTION, AIR, SLUDGE INCINERATION		01 0495	M
POLLUTION, AIR, SYNTHANE, EVALN.	MULVIHILL, J.	01 0510	E
POLLUTION, CATALYTIC AFTERBURNERS, COST, FUEL REQUIRED	BUNYARD, F.	01 0487	M
POLLUTION, CAUSES, CONTROLS, WATER, GROUND		01 0672	M
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POLLUTION, COAL CONVERSION, WATER	YUNG, D.	01 0480	M
POLLUTION, COAL, POWER PLANT, BASELINE DATA		01 0454	M
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POLLUTION, CONTROL, CO(2) ACCEPTOR, EVALN.	MAGEE, E.	01 0033	M
POLLUTION, CONTROL, COAL GASIFICATION, COAL LIQUEFACTION	MAGEE, E.	01 0287	M
POLLUTION, CONTROL, EFFLUENTS, FUEL CONVERSION		01 0609	M
POLLUTION, CONTROL, EVALN., ANALYSIS	KALFADELIS, C.	01 0301	M
POLLUTION, CONTROL, EVALN., H-COAL	JAHNIG, C.	01 0219	M
POLLUTION, CONTROL, EVALN., HYGAS	JAHNIG, C.	01 0207	M
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POLLUTION, CONTROL, EVALN., SYNTHANE	MAGEE, E.	01 0027	M
POLLUTION, CONTROL, EVALN., UGAS	JAHNIG, C.	01 0298	M
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POLLUTION, ENVIRONMENT, FUEL CONVERSION	HUNDEMANN, A.	01 0462	B
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POLLUTION, MEASUREMENT, BOD, COD, TOC, TOD, COMPARISON	DAVIS, E.	01 0878	E
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POLLUTION, TRACE ELEMENTS, NITROGEN, SULFUR	MAGEE, E.	01 0590	H
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POLLUTION, WASTEWATER, POWER PLANT, FLUE GAS, SCRUBBING	LEO, P.	01 0709	H
POLLUTION, WASTEWATER, SLUDGE, EFFLUENTS, TECHNOLOGY		01 0612	H
POLLUTION, WATER, INDUSTRIAL, CONTROL	ECKENFELDER, W	01 0932	J
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POWER PLANT, ACTIVATED CARBON, WASTEWATER, TREATMENT	BENNETT, G.	01 0518	E
POWER PLANT, BASELINE DATA, POLLUTION		01 0454	H
POWER PLANT, COAL GASIFICATION, COAL LIQUEFACTION		01 0145	H
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POWER PLANT, COAL GASIFICATION, WESTINGHOUSE		01 0502	M
POWER PLANT, COAL-FIRED, ASH CHARACTERIZATION	PARKER, F.	01 0792	M
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POWER PLANT, COMBINED CYCLE, ECONOMICS, ENVIRONMENT, SRC	REDDY, B.	01 0695	E
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POWER PLANT, COOLING TOWERS, ENVIRONMENT	HUNDEMANN, A.	01 0760	M
POWER PLANT, EASTERN U.S., EMISSIONS, SO(2)	NEVINS, L.	01 0721	M
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POWER PLANT, ENERGY NEEDS, COAL COMBUSTION, FLUID BED	CAMERON, A.	01 0819	M
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POWER PLANT, FBC, LARGE STEAM GENERATORS	LAPPLE, W.	01 0772	M
POWER PLANT, FBC, LARGE STEAM GENERATORS	LAPPLE, W.	01 0773	M
POWER PLANT, FIXED BED, COAL GASIFICATION, TVA	FAUCETT, H.	01 0485	M
POWER PLANT, FLUE GAS, SCRUBBING, LEACHING, POLLUTION	ROSSOFF, J.	01 0709	M
POWER PLANT, FOSTER WHEELER, COAL GASIFICATION	SMITH, D.	01 0420	M
POWER PLANT, FUEL CYCLES,EFFLUENTS	KEATON, M	01 0399	M
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PYRITE, FLOTATION, CONC. PULP	MILLER, K.	01 0381	M
PYRITE, FLOTATION, TWO-STAGE PROCESS	MILLER, K.	01 0309	I
PYRITE, REMOVAL, COAL CLEANING, PROCESS EVALN.		01 0320	M
PYRITE, REMOVAL, COAL CLEANING, PROCESS EVALN.		01 0327	M
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PYRITE, SEPARATION, WASHING, COAL CLEANING		01 0370	B
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PYRITE, SULFUR, PROCESS ECONOMICS		01 0203	M
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PYROLYSIS, CHEMICALS FROM COAL, COED	PETERS, B.	01 0764	M
PYROLYSIS, INDUCTION PLASMA, FLUID BED		01 0179	M
PYROLYSIS, SHOCK HEATING STUDIES	LOWENSTEIN, A.	01 0235	M
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REGULATIONS, POLLUTION, NONPOINT, COAL MINING		01 0670	M
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SCRUBBING, EMISSIONS, PROCESS, MOLTEN SALT		01 0117	M
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SEPARATION, OIL-WATER, GRAVITY, DESIGN	THOMSON, S.	01 0882	E
SEPARATION, WATER FROM CRUDE OIL	BYESEDA, J.	01 0805	M
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SLUDGE, ACTIVATED, OXYGEN, TERTIARY ALUM TREATMENT	FULLER, R.	01 0914	E
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SLUDGE, ACTIVATED, PLANT EFFLUENT POLISHING	PARSONS, W.	01 0966	E
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SLUDGE, ACTIVATED, POWDERED CARBON, IMPROVEMENT	STENSTROM, M.	01 0927	E
SLUDGE, ACTIVATED, PROCESS DESIGN	LAURIA, D.	01 0923	E
SLUDGE, ACTIVATED, PURE OXYGEN	PALLANICH, P.	01 0913	E
SLUDGE, ACTIVATED, PURE OXYGEN, FMC PROCESS	STETZER, R.	01 0915	E
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SLUDGE, ACTIVATED, WASTEWATER TREATMENT, PROCESS ECONOMICS	OLIVER, E.	01 0804	M

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SLUDGE, ANAEROBIC DIGESTION, METHANE, EPA, WASTE, SOLID	RITTE, S.	01 0441	M
SLUDGE, ASH, ENVIRONMENT, TRACE ELEMENTS	WILDE, K.	01 0410	M
SLUDGE, DEWATERING, ASH ASSISTED	MICALE, F.	01 0489	M
SLUDGE, DEWATERING, DENSIFICATION	SPRUTE, R.	01 0346	M
SLUDGE, DISPOSAL & USE, SEMINAR, WASTE, COAL		01 0363	E
SLUDGE, DISPOSAL, CONESVILLE STATION, DESULFN., FLUE GAS	MARTIN, J.	01 0750	M
SLUDGE, DISPOSAL, ECONOMICS, DESULFN.	FAUCETT, H.	01 0751	E
SLUDGE, DISPOSAL, FLUE GAS CLEANING	LAMANTIA, C.	01 0851	E
SLUDGE, DISPOSAL, LIME/LIMESTONE, EVALN.		01 0372	M
SLUDGE, DISPOSAL, SYMPOSIUM, WASTEWATER, TREATMENT		01 0488	M
SLUDGE, EFFLUENTS, TECHNOLOGY, POLLUTION, WASTEWATER		01 0612	M
SLUDGE, ENVIRONMENT, COAL HANDLING, POWER PLANT		01 0204	M
SLUDGE, INCINERATION, AIR POLLUTION ASPECTS		01 0495	M
SLUDGE, LEACHATE TREATMENT, ADSORPTION	PERNA, A.	01 0862	E
SLUDGE, PHYSICAL PROP., WESTERN COAL, WASTE	RUSCH, R.	01 0600	M
SLUDGE, POWER PLANT, WASTEWATER, REUSE, MEMBRANE	CECIL, L.	01 0517	E
SLUDGE, REFINERY, HANDLING, SOURCES	ADAMS, C.	01 0828	E
SLUDGE, TREATMENT & DISPOSAL, DESIGN MANUAL		01 0868	M
SLUDGE, UTILITY, DEWATERING SYSTEMS	ROBERTSON, J.	01 0918	E
SLUDGE, WASTE DISPOSAL, ECONOMICS, SCRUBBING	PRINCIOTTA, F.	01 0089	M
SLUDGE, WASTEWATER, RESIDUALS MANAGEMENT, CONFERENCE	BRYAN, E.	01 0324	M
SLURRY, CARBON, SULFUR DIOXIDE ABATEMENT	MAGET, M.	01 0821	E
SLURRY, FEEDING SYSTEM, COAL PLANT, BIGAS		01 0011	M
SLURRY, STABILIZATION PROCESS, WASTE	TAUB, S.	01 0694	E

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SNG, LNG, PROCESS, LIQUID FUELS	HEYCHUK, M.	01 0702	H
SNG, LURGI, WESTFIELD PLANT SUCCESS	GRAY, J.	01 0798	H
SNG, PRODN., COAL GASIFICATION, LIGNITE	SCHULZ, C.	01 0124	E
SNG, PRODN., ECONOMICS, CO(2) ACCEPTOR, IGT, LIGNITE		01 0131	H
SNG, PRODN., HYDROLIQUEFACTION, SRC, DESIGN, COST	O'HARA, J.	01 0814	H
SOLID FUEL, PREPN. FROM, COAL, LIQUID FUEL		01 0001	H
SOUR WATER, AMMONIA FIXATION COMPONENTS		01 0943	H
SOUR WATER, SLUDGE, ENIVIRONMENT, COAL HANDLING		01 0204	H
SOUR WATER, STRIPPER DESIGN, EXXON	MELIN, G.	01 0825	E
SOUR WATER, STRIPPER STUDY	GANTZ, H.	01 0778	E
SOUR WATER, STRIPPER, CORROSION, VARIABLES	BERRY, W.	01 0968	H
SOUR WATER, STRIPPER, DESIGN	RODRIGUEZ, D.	01 0774	E
SOUR WATER, STRIPPING, AMMONIA & HYDROGEN SULFIDE		01 0874	H
SOUR WATER, TREATMENT	SYLVESTER, N.	01 0641	H
SOUR WATER, TREATMENT, CHEVRON PROCESS	KLETT, R.	01 0965	E
SOUR WATER, VOLATILITY DATA, AMMONIA, CO(2), H(2)S	WILSON, G.	01 0799	H
SRC, ASH, REMOVAL, ANTISOLVENT	SNELL, G.	01 0689	H
SRC, BABCOCK & WILCOX, STORAGE, COMBUSTION	DOWNS, W.	01 0413	H
SRC, BIGAS, COG REFINERY, ECONOMICS, DESIGN	FRANK, M.	01 0074	E
SRC, CLEAN COKE, SYNTHOIL, COAL LIQUEFACTION		01 0573	H
SRC, COAL COMBUSTION, COAL HANDLING	HORIO, R.	01 0261	H
SRC, COAL HANDLING, CHARACTERIZATION, REFINING	GRESKOVICH, E.	01 0241	H
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SRC, COG REFINERY, PP DESIGN		01 0079	H

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SRC, ENVIRONMENT, COG REFINERY		01 0071	H
SRC, FILTRATION, DESIGN, H-COAL		01 0602	H
SRC, FLUE GAS SAMPLING	KOHALEK, C.	01 0939	E
SRC, FORT LEWIS PLANT, TECHNICAL EVALUATION	OHARA, J.	01 0837	H
SRC, FORT LEWIS, PP CONSTRUCTION		01 0043	H
SRC, FORT LEWIS, SAMPLING PLAN, ENVIRONMENT		01 0693	H
SRC, GAS PROCESSING SYSTEMS	SEGLIN, L.	01 0630	H
SRC, H-COAL, STATUS, COAL LIQUEFACTION	WELLMAN, P.	01 0465	E
SRC, HEALTH PROGRAM, PP, INDUSTRIAL HYGIENE		01 0794	H
SRC, HYDROLIQUEFACTION, SNG + OIL PRODN., PLANT DESIGN	HERVEY, G.	01 0814	H
SRC, LEACHING, HYDROGENATION, COAL LIQUEFACTION, BATTELLE		01 0018	H
SRC, LIQUID FUEL, CHARACTERIZATION, HANDLING	ALEXANDER, W.	01 0274	H
SRC, LIQUID FUEL, HYDRODESULFN., HYDROCRACKING, HANDLING	GRESKOVICH, E.	01 0625	H
SRC, LIQUID FUEL, PRODN., ECONOMICS, BUR. OF MINES		01 0501	H
SRC, LIQUID FUELS, CHARACTERIZATION, AIR PRODUCTS	GRESKOVICH, E.	01 0403	H
SRC, LUMMUS ANTI-SOLVENT DE-ASHING COAL TECHNOLOGY	SNELL, G.	01 0265	H
SRC, LURGI, EMISSIONS, HAZARDOUS, CORING, HEALTH	LEBOWITZ, H.	01 0037	H
SRC, POLLUTION CONTROL, EVALN.	JAHNIG, C.	01 0034	H
SRC, POWER PLANT, COMBINED CYCLE, ECONOMICS, ENVIRONMENT	REDDY, G.	01 0645	E
SRC, PROCESS		01 0521	H
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SRC, PROCESS, ANNUAL REPORT		01 0524	H
SRC, PRODUCTS & WASTES CHARACTERIZATION, SHALE OIL	PETERSEN, M.	01 0628	H
SRC, PROGRESS REPORT		01 0030	H
SRC, PROGRESS REPORT, USDOE		01 0808	H
SRC, QUARTERLY REPORT, PITTSBURG & MIDWAY COAL MINING CO.		01 0796	H
SRC, SYNTHOIL, LIQUID FUEL, COAL LIQUIDS, H-COAL	CABAL, A.	01 0251	H
SRC, TRACE ELEMENTS, FATE	FILBY, R.	01 0926	H
SRC, WYODAK, ILLINOIS #6, BLACK MESA COALS		01 0229	H
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SULFUR DIOXIDE, ABATEMENT, CARBON SLURRY	MAGET, H.	01 0821	E
SULFUR DIOXIDE, CHEMISTRY, DESULFN., WASTE GASES	HAAS, L.	01 0729	H
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SULFUR, COMBUSTOR, ASSESSMENT	FRALEY, L.	01 0895	H
SULFUR, EMISSION CONTROL, PROCESS SELECTION	JIMESON, R.	01 0586	E
SULFUR, EMISSION REDUCTION, CLAUS PLANT	BARRY, C.	01 0568	E
SULFUR, EMISSIONS CONTROL, CLAUS PLANT	ANDREWS, J.	01 0576	E
SULFUR, EMISSIONS, CONTROL		01 0334	H
SULFUR, FORMS IN U.S. COALS	WALKER, F.	01 0104	H
SULFUR, HIGH TEMPERATURE REMOVAL PROCESS	CURRAN, G.	01 0583	E
SULFUR, HYDRODESULFN., COAL LIQUIDS	CHIRAKAPARAMBI	01 0231	H
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SULFUR, RECOVERY PROCESSES	GOAR, B.	01 0560	E
SULFUR, REDN., APPALACHIAN, COAL CLEANING	DEURBROUCK, A.	01 0103	M
SULFUR, REDUCTION IN COAL, REVIEW, COAL CLEANING	CAVALLARO, J.	01 0252	M
SULFUR, REDUCTION, COAL	JOHNSTON, M.	01 0596	M
SULFUR, REDUCTION, COAL CLEANING	DEURBROUCK, A.	01 0003	M
SULFUR, REMOVAL FROM FUEL GAS, HEAVY FUEL CONVERSION PLANT		01 0606	M
SULFUR, REMOVAL, BEAVON PROCESS	BEAVON, D.	01 0905	E
SULFUR, REMOVAL, CARBON, COAL GASIFICATION, GASIFIERS		01 0268	M
SULFUR, REMOVAL, COAL CLEANING	GOMIN, E.	01 0051	E
SULFUR, REMOVAL, COAL, EXTN., PYROLYSIS		01 0088	M
SULFUR, REMOVAL, FUEL GAS	MOORE, R.	01 0270	M
SULFUR, REMOVAL, PROCESS, FLUE GAS	HAM, D.	01 0355	M
SULFUR, TRACE ELEMENTS, FLOTATION, COAL CLEANING, ILLINOIS	SHIMP, N.	01 0439	M
SULFUR, TRACE ELEMENTS, METHODS, COAL CLEANING	SINGH, S.	01 0414	M
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SYNTHANE, ANALYSIS, EFFLUENTS, TAR, CHAR,GAS,BUR. OF MINES	FORNEY, A.	01 0406	M
SYNTHANE, HIGAS, CO(2) ACCEPTOR, FLOW DIAGRAMS, HYGAS	DETMAN, R.	01 0295	M
SYNTHANE, HIGAS, CO(2) ACCEPTOR, HYGAS, DESIGN, COST	DETMAN, R.	01 0294	M
SYNTHANE, CATALYST, ANALYSIS, COAL CLEANING, SYNTHOIL	BENDER, I.	01 0608	M
SYNTHANE, COAL GASIFICATION, CONDENSATE WATER TREATABILITY	JOHNSON, G.	01 0797	M
SYNTHANE, COAL-TO-GAS PROCESS	FORNEY, A.	01 0098	M
SYNTHANE, EFFLUENTS, ANALYSIS OF TAR, CHAR, GASES	FORNEY, A.	01 0384	M

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SYNTHANE, HYGAS, CO(2) ACCEPTOR, KOPPERS,	GENCO, J.	01 0329	M
SYNTHANE, METHANATION, TUBE WALL	WEI, V.	01 0136	E
SYNTHANE, PHENOL, DECOMPOSITION	MASSEY, M.	01 0514	M
SYNTHANE, POLLUTION CONTROL, EVALN.	KALFADELIS, C.	01 0027	M
SYNTHANE, WASTEWATER OZONATION	NEUFELD, R.	01 0864	E
SYNTHANE, WASTEWATER PURIFN., ACTIVATED SLUDGE, GRAN. CHAR	NEUFELD, R.	01 0880	E
SYNTHANE, WASTEWATER, ANALYSIS, COAL GASIFICATION	FRIEDEL, R.	01 0356	M
SYNTHOIL, ANALYSIS, CARBONIZATION, COAL GASIFICATION		01 0306	M
SYNTHOIL, ANALYSIS, COAL, ERDA TECHNOLOGY PROGRAM		01 0306	M
SYNTHOIL, COAL LIQUEFACTION, SRC, CLEAN COKE		01 0573	M
SYNTHOIL, ENVIRONMENT, SYNTHANE, CATALYST, ANALYSIS	WENDER, I.	01 0608	M
SYNTHOIL, HYDROCARBONIZATION, DESIGN DATA, ORNL	SALMON, R.	01 0855	M
SYNTHOIL, LIQUID FUEL, COAL LIQUIDS, H-COAL, SRC	CALLEN, R.	01 0251	M
SYNTHOIL, PROCESS DESIGN, ECONOMICS, EVALN.	SALMON, R.	01 0856	M
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SYNTHOIL, WYODAK & KENTUCKY COAL, ECONOMICS		01 0254	M
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TAR SANDS, PROCESS EVALN., OIL SHALE		01 0222	M
TAR SANDS, WESTERN STATES, COAL MINING, OIL SHALE	CONSENTINO, J.	01 0484	M
TAR, ANALYSIS, COAL GASIFICATION, FIXED BED	LIBERATORE, A.	01 0218	E
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THICKENERS, LAMELLA, WASTEWATER, COAL CLEANING	CHILDRESS, J.	01 0468	E
TOWER, COOLING, DRIFT MEASUREMENT, CONTROL, ENVIRONMENT	WISTROM, G.	01 0893	E
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TOWER, COOLING, REPORT		01 0891	M
TOWER, COOLING, WATER RECOVERY, REVERSE OSMOSIS	KOSAREK, L.	01 0884	E
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TOXICITY, POLLUTANTS, SOLID COAL WASTES, SOLUBILITY	GRIFFIN, R.	01 0457	E
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TRACE ELEMENTS, COAL GASIFICATION, HYGAS	ATTARI, A.	01 0673	M
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TRACE ELEMENTS, COAL, CHARACTERIZATION		01 0739	E
TRACE ELEMENTS, DISTN. IN COAL	GLUSKOTER, H.	01 0665	M
TRACE ELEMENTS, DISTN. IN PROCESS STREAMS, IGT	MENSINGER, M.	01 0479	E
TRACE ELEMENTS, EFFECTS, COAL CLEANING	FORD, C.	01 0462	E

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TRACE ELEMENTS, ENVIRONMENT, FUEL CONVERSION PROCESSES	AYER, F.	01 0036	H
TRACE ELEMENTS, FATE, COAL GASIFICATION	ATTARI, A.	01 0395	H
TRACE ELEMENTS, FATE, COAL GASIFICATION	LLOYD, W.	01 0537	E
TRACE ELEMENTS, FLOTATION, COAL CLEANING, ILLINOIS, SULFUR	SIMON, J.	01 0439	H
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TRACE ELEMENTS, REMOVAL, COAL COMBUSTION	YEH, J.	01 0397	H
TRACE ELEMENTS, REMOVAL, COAL, COAL WASTES	WEWERKA, E.	01 0330	E
TRACE ELEMENTS, REMOVAL, COAL, COAL WASTES	WEWERKA, E.	01 0331	E
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TRACE ELEMENTS, TOXICITY, SOLID COAL WASTE, SOLUBILITY	SCHULLER, R.	01 0957	E
TRACE ELEMENTS, TVA, DESULFN., FLUE GAS, SCRUBBING	ROSSOFF, J.	01 0746	E
TRACE ELEMENTS, WASTE, SOLID, LEACHING	VAN METER, W.	01 0433	H
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UGAS, POLLUTION CONTROL, EVALN.	JAHNIG, C.	01 0298	M
USDOE, PERC, QUARTERLY TECHNICAL PROGRESS REPORT	WENDER, I.	01 0845	M
WASTE, AGRICULTURAL, BIOCONVERSION, ENERGY PRODN.	DAVIS, M.	01 0540	M
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WASTE, CELLULOSE, BIOCONVERSION, ENERGY PRODN.	WARE, S.	01 0637	M
WASTE, COAL COMBUSTION, DESULFN., COAL MINING		01 0428	B
WASTE, COAL MINING, BURIAL	SAPERSTEIN, L.	01 0458	E
WASTE, COAL, SLUDGE, DISPOSAL & USE, SEMINAR		01 0363	E
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WASTE, CONTROL TECHNOLOGY DEVELOPMENT	BOSTWICK, L.	01 0952	E
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WASTE, DISPOSAL, ECONOMICS, SCRUBBING, SLUDGE	PRINCIOTTA, F.	01 0089	M
WASTE, DISPOSAL, ENVIRONMENT,COAL MINING	SMITH, M.	01 0316	B
WASTE, DISPOSAL, FILTRATION, COAL MINING	DURALIA, E.	01 0466	E
WASTE, DISPOSAL, FLUE GAS	JONES, J.	01 0725	E
WASTE, DISPOSAL, LINERS, MEMBRANE, ASPHALT	GESWEIN, A.	01 0519	M
WASTE, DISPOSAL, WATER, GROUND, EFFECT		01 0486	M
WASTE, EMBANKMENT, PHYSICAL PROP., COAL MINING	BACKER, R.	01 0766	M
WASTE, EROSION & SEDIMENT CONTROL, ENVIRONMENT	THRONSON, R.	01 0653	M
WASTE, FERMENTATION, ANAEROBIC	BUSWELL, A.	01 0863	E
WASTE, HAZARDOUS DETOXIFICATION, MICROWAVE PLASMA	BAILIN, L.	01 0713	M
WASTE, HAZARDOUS, MANAGEMENT FACILITIES	STRAUS, M.	01 0508	M

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WASTE, HAZARDOUS, SEVEN STATES, REGULATIONS	WALDROP, P.	01 0603	M
WASTE, INDUSTRIAL, PURDUE CONFERENCE, 1973		01 0929	E
WASTE, INDUSTRIAL, PURDUE CONFERENCE, 1975		01 0930	E
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WASTE, KRAFT MILL, ROTATING BIOLOGICAL SURFACE	MCALILEY, J.	01 0780	E
WASTE, LAND DISPOSAL, ENVIRONMENT, SYMPOSIUM	FULLER, W.	01 0708	M
WASTE, LIQUID FUEL, GASEOUS FUEL	HUNDEMANN, A.	01 0470	B
WASTE, MIXED FUEL, INDUSTRIAL USE	MATHUR, G.	01 0719	M
WASTE, ORGANIC, CONVERSION TO FUEL + ENERGY	ANDERSON, L.	01 0009	M
WASTE, REDUCTION, RESOURCE RECOVERY		01 0615	M
WASTE, RESIDUAL, BEST MANAGEMENT PRACTICES, PEDCO		01 0499	M
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WASTE, SLURRY, STABILIZATION PROCESS	TAUB, S.	01 0694	E
WASTE, SOLID, CONVERSION TO FUEL	JONES, J.	01 0890	E
WASTE, SOLID, DISPOSAL, ABANDONED STRIP MINES	CHAPMAN, N.	01 0426	M
WASTE, SOLID, DISPOSAL, FLUE GAS CLEANING	LUNT, R.	01 0851	E
WASTE, SOLID, ENCAPSULATION, IMMOBILIZATION, MATRIX	SUBRAMANIAN, R	01 0771	M
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WASTE, SOLID, LANDFILLS,TREATMENT, LEACHING	CIRELLO, J.	01 0712	M
WASTE, SOLID, LEACHING, DAMAGE EVALN., IN-SITU		01 0548	M
WASTE, SOLID, LEACHING, TRACE ELEMENTS	VAN METER, W.	01 0433	M

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WASTE, SOLID, STORAGE BY CLAY BEDS, EVALN.	SANKS, R.	01 0711	M
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WASTE, TREATMENT, TRICKLING FILTERS, PHENOL	JOYCE, T.	01 0478	E
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    01 0746       AEROSPACE CORP.
    01 0517       AICHE
    01 0518       AICHE
    01 0722       AICHE NATL. MEETING 82
    01 0635       AICHE, GWDA, EPA, INFORMATION TRANSFER, UNIV. OF HOUSTON
    01 0368       AIR POLLUTION SYSTEMS, INC
    01 0784       AIR POLLUTION TECHNOLOGY, INC.
    01 0011       AIR PRODUCTS AND CHEMICALS, INC.
    01 0141       AIR PRODUCTS AND CHEMICALS, INC.
    01 0241       AIR PRODUCTS AND CHEMICALS, INC.
    01 0274       AIR PRODUCTS AND CHEMICALS, INC.
    01 0403       AIR PRODUCTS AND CHEMICALS, INC.
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    01 0638       AIR PRODUCTS AND CHEMICALS, INC.
    01 0962       AIR REDUCTION CO.
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    01 0691       ALLIED CHEMICAL-INDUSTRIAL CHEMICALS DIVISION
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01 0843        API

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01 0419        ARGONNE NATL LABORATORY

01 0541        ARGONNE NATL LABORATORY

01 0834        ARGONNE NATL LABORATORY

01 0404        ASAHI CHEMICAL INDUSTRY CO., LTD.

01 0465        ASHLAND OIL

01 0226        ASSOCIATED UNIVERSITIES, INC.

01 0045        ATLANTIC RICHFIELD CO.

01 0046        ATLANTIC RICHFIELD CO.

01 0047        ATLANTIC RICHFIELD CO.

01 0578        ATLANTIC RICHFIELD CO.

01 0116        ATOMICS INTL.

01 0117        ATOMICS INTL.

01 0030        AUBURN UNIV.

01 0789        AUTOTROL CORP.

01 0235        AVCO EVERETT RESEARCH LAB.

01 0112        AVCO SPACE SYSTEMS DIVISION

01 0668        AWARE

01 0678        AWARE

01 0826        AWARE

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01 0700	BABCOCK & WILCOX
01 0701	BABCOCK & WILCOX
01 0772	BABCOCK & WILCOX
01 0773	BABCOCK & WILCOX
01 0660	BADGER CO., INC.
01 0490	BARTLESVILLE ENERGY RESEARCH CENTER
01 0018	BATTELLE
01 0037	BATTELLE
01 0115	BATTELLE
01 0152	BATTELLE
01 0201	BATTELLE
01 0257	BATTELLE
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01 0628	BATTELLE PACIFIC NORTHWEST LAB.
01 0385	BATTELLE-COLUMBUS LABORATORIES
01 0203	BECHTEL CORP.
01 0380	BECHTEL CORP.
01 0753	BECHTEL CORP.
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01 0829	BECHTEL CORP.
01 0874	BECHTEL CORP.
01 0280	BELL AEROSPACE
01 0892	BELL LABORATORIES
01 0875	BERGBAU-FORSCHUNG GMBH
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01 0259     BNL

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01 0664     BNL

01 0368     BOLT BERANEK AND NEWMAN, INC.

01 0094     BOOZ-ALLEN & HAMILTON, INC.

01 0095     BOOZ-ALLEN & HAMILTON, INC.

01 0315     BOOZ-ALLEN & HAMILTON, INC.

01 0606     BOOZ-ALLEN & HAMILTON, INC.

01 0285     BRAUN, C.F. & CO.

01 0294     BRAUN, C.F. & CO.

01 0295     BRAUN, C.F. & CO.

01 0296     BRAUN, C.F. & CO.

01 0593     BRAUN, C.F. & CO.

01 0620     BRAUN, C.F. & CO.

01 0667     BRAUN, C.F. & CO.

01 0687     BRAUN, C.F. & CO.

01 0823     BRAUN, C.F. & CO.

01 0799     BRIGHAM YOUNG UNIV.

01 0243     BRIGHAM-YOUNG UNIV.

01 0798     BRITISH GAS CORP.

01 0151     BRITISH STEEL CORP.

01 0726     BUR. OF LAND MANAGEMENT
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        01 0159     BUR. OF MINES MANAGING COAL WASTES & POLLUTION PROGRAM

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        01 0579     CALGON CORP.

        01 0877     CALGON CORP.

        01 0552     CAMERON ENGINEERS, INC.
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01 0696	CARNEGIE MELLON UNIV.- ENVIRONMENTAL STUDIES INSTITUTF
01 0820	CARNEGIE-MELLON
01 0342	CARNEGIE-MELLON UNIV.
01 0699	CARNEGIE-MELLON UNIV.
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01 0885	CARNEGIE-MELLON UNIV.
01 0944	CARNEGIE-MELLON UNIV.
01 0948	CARNEGIE-MELLON UNIV.
01 0684	CASE WESTERN RESERVE UNIV.
01 0607	CATALYTIC, INC.
01 0609	CATALYTIC, INC.
01 0704	CATALYTIC, INC.
01 0950	CATALYTIC, INC.
01 0002	CHEM SYSTEMS INC.
01 0076	CHEM SYSTEMS INC.
01 0284	CHEM SYSTEMS INC.
01 0742	CHEVRON RESEARCH CO.
01 0965	CHEVRON RESEARCH CO.
01 0581	CHIYODA
01 0924	CLEMSON UNIV.
01 0833	CLEVELAND REGIONAL SEWER DISTRICT
01 0736	CLEVELAND STATE UNIV.
01 0441	COAL RESEARCH BUREAU
01 0854	COALCON
01 0267	COLORADO INTERSTATE GAS CO.

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01 0324      COLORADO STATE UNIV.

01 0954      COLORADO STATE UNIV.

01 0750      COLUMBUS & SOUTHERN OHIO ELECTRIC

01 0261      COMBUSTION ENGINEERING

01 0487      COMBUSTION ENGINEERING

01 0451      COMBUSTION ENGINEERING, INC.

01 0205      COMBUSTION POWER CO.

01 0308      COMMITTEE ON MEDICAL AND BIOLOGIC EFFECTS OF ENVIRONMENTAL POLLUTANTS

01 0778      CONOCO

01 0448      CONOCO COAL DEVELOPMENT CO.

01 0032      CONSOLIDATION COAL CO.

01 0051      CONSOLIDATION COAL CO.

01 0052      CONSOLIDATION COAL CO.

01 0053      CONSOLIDATION COAL CO.

01 0118      CONSOLIDATION COAL CO.

01 0120      CONSOLIDATION COAL CO.

01 0125      CONSOLIDATION COAL CO.

01 0126      CONSOLIDATION COAL CO.

01 0127      CONSOLIDATION COAL CO.

01 0128      CONSOLIDATION COAL CO.

01 0129      CONSOLIDATION COAL CO.

01 0167      CONSOLIDATION COAL CO.

01 0168      CONSOLIDATION COAL CO.

01 0169      CONSOLIDATION COAL CO.

01 0170      CONSOLIDATION COAL CO.
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01 0677     CONSOLIDATION COAL CO.

01 0540     CORNELL UNIV.

01 0386     CORVALLIS ERL

01 0831     DAMES & MOORE

01 0300     DAVIS, J.J., ASSOCIATES

01 0504     DEVELOPMENT ENGINEERING INC. & WOODWARD-CLYDE CONSULTANTS

01 0599     DOW CHEMICAL CO.

01 0764     DOW CHEMICAL CO.

01 0770     DOW CHEMICAL CO.

01 0266     DRAVO CORP.

01 0288     DRAVO CORP.

01 0412     DRAVO CORP.

01 0442     DRAVO CORP.

01 0682     DUPONT

01 0860     DUPONT

01 0166     DYNATECH

01 0365     EASTERN ASSOCIATED COAL CORP.

01 0637     EBON RESEARCH SYSTEMS

01 0893     ECODYNE COOLING PRODUCTS CO.

01 0917     ECODYNE CORP.

01 0630     ECONERGY ASSOCIATES

01 0916     EDC/ENVIRO DEVELOPMENT CO., INC.

01 0884     EL PASO ENVIRONMENTAL SYSTEMS, INC.

01 0730     EMISSION STANDARDS & ENGINEERING DIVISION

01 0731     EMISSION STANDARDS AND ENGINEERING DIVISION
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   01 0655      EMSL

   01 0455      ENERGY RESOURCES CO. INC.

   01 0801      ENGINEERING SCIENCE, INC.

   01 0744      ENGINEERING-SCIENCE CO.

   01 0782      ENTOLETER, INC.

   01 0785      ENTOLETER, INC.

   01 0546      ENVIREX INC.

   01 0626      ENVIROGENICS SYSTEMS

   01 0446      ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY

   01 0478      ENVIROTECH CORP.

   01 0886      ENVIROTECH CORP.

   01 0865      ENVIROTECH PROCESS EQUIPMENT

   01 0636      ENVIROTECH, EIMCO BSP DIVISION

   01 0350      EPA

   01 0376      EPA

   01 0475      EPA

   01 0486      EPA

   01 0488      EPA

   01 0491      EPA

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01 0519	EPA
01 0528	EPA
01 0529	EPA
01 0533	EPA
01 0547	EPA
01 0548	EPA
01 0603	EPA
01 0643	EPA
01 0765	EPA
01 0934	EPA
01 0550	EPA-LIBRARY SYSTEMS BRANCH
01 0835	EPA. OFF. WATER PROGRAM OPERATIONS
01 0712	EPA. RUTGERS UNIV.
01 0153	ERDA
01 0216	ERDA
01 0217	ERDA
01 0218	ERDA
01 0224	ERDA
01 0247	ERDA
01 0310	ERDA
01 0311	ERDA
01 0428	ERDA
01 0438	ERDA
01 0483	ERDA
01 0511	ERDA

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01 0539      ERDA

01 0027      ESSO RESEARCH & ENGINEERING CO.

01 0304      ESSO RESEARCH & ENGINEERING CO.

01 0590      ESSO RESEARCH & ENGINEERING CO.

01 0033      EXXON

01 0034      EXXON

01 0035      EXXON

01 0200      EXXON

01 0207      EXXON

01 0219      EXXON

01 0220      EXXON

01 0287      EXXON

01 0297      EXXON

01 0298      EXXON

01 0301      EXXON

01 0362      EXXON

01 0387      EXXON

01 0580      EXXON

01 0825      EXXON

01 0903      EXXON

01 0844      EXXON RESEARCH AND ENGINEERING CO.

01 0338      EYRING RESEARCH INST.

01 0377      FEDERAL ENERGY ADMINISTRATION

01 0846      FEDERAL ENERGY ADMINISTRATION

01 0847      FEDERAL ENERGY ADMINISTRATION
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01 0586        FEDERAL POWER COMMISSION

01 0618        FEDERAL POWER COMMISSION

01 0619        FEDERAL POWER COMMISSION

01 0142        FLUOR

01 0228        FLUOR

01 0234        FLUOR

01 0240        FLUOR

01 0272        FLUOR

01 0629        FLUOR

01 0802        FLUOR

01 0832        FLUOR

01 0857        FLUOR

01 0898        FLUOR

01 0882        FLUOR ENGINEERS & CONSTRUCTORS, INC.

01 0421        FLUOR UTAH

01 0054        FMC CORP.

01 0055        FMC CORP.

01 0056        FMC CORP.

01 0057        FMC CORP.

01 0059        FMC CORP.

01 0278        FMC CORP.

01 0515        FMC CORP.

01 0915        FMC CORP.

01 0424        FORD, BACON, & DAVIS, INC.

01 0082        FOSTER WHEELER CORP.
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01 0204     FOSTER WHEELER CORP.

01 0260     FOSTER WHEELER CORP.

01 0420     FOSTER WHEELER CORP.

01 0841     FOSTER WHEELER CORP.

01 0859     FOSTER WHEELER ENERGY CORP.

01 0165     FRANKLIN INST.

01 0439     GARD INC.

01 0651     GENERAL ANALYTICS

01 0253     GENERAL ELECTRIC

01 0672     GENERAL ELECTRIC

01 0690     GENERAL ELECTRIC

01 0527     GENERAL TIRE AND RUBBER

01 0469     GILBERT ASSOCIATES

01 0512     GOAR, ARRINGTON & ASSOCIATES, INC.

01 0604     GOODYEAR ATOMIC CORP.

01 0008     GRAND FORKS ERL

01 0028     GRAND FORKS ERL

01 0551     GULF OIL CORP.

01 0816     GULF RESEARCH AND DEVOLOPMENT CO.

01 0542     GULF SOUTH RESEARCH INST.

01 0914     GULF STATES PAPER CORP.

01 0530     HERCULES, INC.

01 0041     HITTMAN ASSOC., INC.

01 0042     HITTMAN ASSOC., INC.

01 0430     HITTMAN ASSOC., INC.
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  01 0454       HITTMAN ASSOC., INC.

  01 0471       HITTMAN ASSOC., INC.

  01 0698       HITTMAN ASSOC., INC.

  01 0790       HITTMAN ASSOC., INC.

  01 0843       HITTMAN ASSOC., INC.

  01 0939       HITTMAN ASSOC., INC.

  01 0942       HITTMAN ASSOC., INC.

  01 0545       HORMEL, G.A. & CO.

  01 0060       HYDROCARBON RESEARCH

  01 0061       HYDROCARBON RESEARCH

  01 0066       HYDROCARBON RESEARCH

  01 0070       HYDROCARBON RESEARCH

  01 0171       HYDROCARBON RESEARCH

  01 0229       HYDROCARBON RESEARCH

  01 0277       HYDROCARBON RESEARCH

  01 0602       HYDROCARBON RESEARCH

  01 0662       HYDROCARBON RESEARCH

  01 0811       HYDROCARBON RESEARCH

  01 0899       HYDROCARBON RESEARCH

  01 0924       ICI AMERICA INC.

  01 0230       IERL

  01 0716       IERL

  01 0725       IERL

  01 0727       IERL

  01 0738       IERL
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01 0754       IERL

01 0693       IERL-ENERGY ASSESSMENT & CONTROL DIVISION

01 0150       IGT

01 0156       IGT

01 0160       IGT

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01 0162       IGT

01 0163       IGT

01 0164       IGT

01 0186       IGT

01 0190       IGT

01 0191       IGT

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01 0322	IGT
01 0339	IGT
01 0395	IGT
01 0472	IGT
01 0479	IGT
01 0587	IGT
01 0591	IGT
01 0673	IGT
01 0012	ILLINOIS STATE GEOLOGICAL SURVEY
01 0439	ILLINOIS STATE GEOLOGICAL SURVEY
01 0665	ILLINOIS STATE GEOLOGICAL SURVEY
01 0739	ILLINOIS STATE GEOLOGICAL SURVEY
01 0953	ILLINOIS STATE GEOLOGICAL SURVEY
01 0957	ILLINOIS STATE GEOLOGICAL SURVEY
01 0407	ILLINOIS UNIVERSITY
01 0863	ILLINOIS, DIV. OF STATE WATER SURVEY
01 0363	IMMR
01 0425	IMMR
01 0335	INDEX SYSTEMS INC.
01 0427	INPUT OUTPUT COMPUTER SERVICES, INC.
01 0819	INSTITUTE FOR ENERGY ANALYSIS
01 0158	IOWA STATE UNIV.
01 0496	IOWA STATE UNIV.
01 0925	ISRAEL INST. OF TECHNOLOGY
01 0694	IU CONVERSION SYSTEMS, INC.

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01 0850      IU CONVERSION SYSTEMS, INC.
01 0459      JOCOBS ENGINEERING CO.
01 0242      JOHNS-MANVILLE SALES CORPERATION
01 0467      KAISER ENGINEERS
01 0839      KAISER STEEL CORP.
01 0145      KELLOGG
01 0155      KELLOGG
01 0173      KELLOGG
01 0174      KELLOGG
01 0732      KELLOGG
01 0895      KELLOGG
01 0952      KELLOGG
01 0344      KENTUCKY UNIV.
01 0408      KVH ENGINEERING, INC.
01 0402      LAWRENCE LIVERMORE LABORATORY
01 0452      LAWRENCE LIVERMORF LABORATORY
01 0489      LEHIGH UNIV.
01 0004      LERC
01 0202      LITTLE, A.D.
01 0401      LITTLE, A.D.
01 0666      LITTLE, A.D.
01 0724      LITTLE, A.D.
01 0851      LITTLE, A.D., INC.
01 0422      LOCKHEED MISSILES & SPACE CO. INC.
01 0713      LOCKHEED MISSILES & SPACE CO. INC.
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01 0840	LOCKHEED PALO ALTO RESEARCH LAB.
01 0763	LOUISIANA CHEMICAL ASSOC.
01 0136	LUMMUS CO.
01 0265	LUMMUS CO.
01 0689	LUMMUS CO.
01 0373	MARCOM
01 0426	MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE
01 0494	MATRECON, INC.
01 0340	MCGILL UNIV.
01 0783	MCILVAINE CO.
01 0958	MCKEE, ARTHUR G. & CO.
01 0966	MCKEE, ARTHUR G. & CO.
01 0318	MCNALLY PITTSBURG MFG. CORP.
01 0319	MCNALLY PITTSBURG MFG. CORP.
01 0175	MELPAR, INC.
01 0097	MERC
01 0333	MERC
01 0415	MERC
01 0616	MERC
01 0317	MERL
01 0708	MERL
01 0595	METALLGESELLSCHAFT AG
01 0305	MINNESOTA UNIV.
01 0236	MIT
01 0245	MIT

ACCESSION NO.	CORPORATE AUTHOR
01 0312	MITRE CORP.
01 0640	MITRE CORP.
01 0733	MITRE CORP.
01 0913	MOBAY CHEMICAL CORP.
01 0281	MOBIL
01 0251	MOBIL R&D CORP.
01 0016	MONSANTO RESEARCH CORP.
01 0017	MONSANTO RESEARCH CORP.
01 0040	MONSANTO RESEARCH CORP.
01 0781	MONSANTO RESEARCH CORP.
01 0752	MONTANA POWER CO.
01 0131	MORGANTOWN COAL RESEARCH CENTER
01 0132	MORGANTOWN COAL RESEARCH CENTER
01 0137	MORGANTOWN RESEARCH CENTER
01 0138	MORGANTOWN RESEARCH CENTER
01 0894	MORRISON-KNUDSEN CO., INC.
01 0759	N. DAKOTA STATE UNIV.
01 0862	N.J. INSTITUTE OF TECHNOLOGY
01 0697	NAT'L. COAL BOARD, UNITED KINGDOM
01 0177	NATHAN ASSOCIATES, INC
01 0714	NATIONAL SCIENCE FOUNDATION
01 0358	NATL BUR. OF STANDARDS
01 0396	NAVEL AIR PROPULTION TEST CENTER
01 0089	NERC
01 0702	NERC

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01 0719      NERC

01 0867      NERC

01 0293      NEW MEXICO STATE UNIV.

01 0544      NIOSH

01 0617      NIOSH

01 0949      NORTH CAROLINA STATE UNIV.

01 0314      NORTHERN GREAT PLAINS RESOURCE PROGRAM

01 0238      NTIS

01 0249      NTIS

01 0256      NTIS

01 0470      NTIS

01 0911      NUS CORP.

01 0588      OEMI

01 0723      OFFICE OF ENVIRONMENTAL PROJECT REVIEW

01 0615      OFFICE OF SOLID WASTE

01 0231      OKLAHOMA STATE UNIV.

01 0232      OKLAHOMA STATE UNIV.

01 0233      OKLAHOMA STATE UNIV.

01 0663      OKLAHOMA STATE UNIV.

01 0292      ORNL

01 0306      ORNL

01 0393      ORNL

01 0437      ORNL

01 0453      ORNL

01 0461      ORNL
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01 0474	ORNL
01 0505	ORNL
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01 0592	ORNL
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01 0793	ORNL
01 0815	ORNL
01 0855	ORNL
01 0856	ORNL
01 0670	OWHM
01 0676	OWHM
01 0535	PACIFIC ENVIRONMENTAL SERVICES, INC.
01 0014	PACIFIC NORTHWEST ERL
01 0468	PARKSON CORP. & CHILDRESS CORP.
01 0814	PARSONS, RALPH M. CO.
01 0837	PARSONS, RALPH M. CO.
01 0905	PARSONS, RALPH M. CO.
01 0951	PARSONS, RALPH M. CO.
01 0001	PARSONS, RALPH M., CO.
01 0072	PARSONS, RALPH M., CO.
01 0083	PARSONS, RALPH M., CO.
01 0323	PARSONS, RALPH M., CO.
01 0720	PARSONS, RALPH M., CO.

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         01 0889     PEABODY ENGINEERED SYSTEMS

         01 0959     PEABODY HOLMES CO.

         01 0423     PEAT, MARWICK, MITCHELL, AND CO.

         01 0842     PEDCO ENVIRONMENTAL SPECIALISTS, INC.

         01 0499     PEDCO-ENVIRONMENTAL, INC.

         01 0910     PENN ENVIRONMENTAL CONSULTANTS, INC.

         01 0748     PENN. POWER CO.

         01 0023     PENN. STATE UNIV.

         01 0031     PENN. STATE UNIV.

         01 0119     PENN. STATE UNIV.

         01 0457     PENN. STATE UNIV.

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         01 0005     PERC

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01 0374      PERC

01 0382      PERC

01 0384      PERC

01 0347      PERC

01 0400      PERC

01 0503      PERC

01 0510      PERC

01 0514      PERC

01 0608      PERC

01 0747      PERC

01 0845      PERC

01 0817      PERMUTIT

01 0920      PHILADELPHIA ELECTRIC CO.

01 0657      PHILLIPS PETROLEUM CO.

01 0450      PHILLIPS PETROLIUM CO.

01 0922      PICKARD AND ANDERSON

01 0043      PITTSBURG & MIDWAY COAL MINING CO.

01 0071      PITTSBURG & MIDWAY COAL MINING CO.

01 0078      PITTSBURG & MIDWAY COAL MINING CO.

01 0079      PITTSBURG & MIDWAY COAL MINING CO.

01 0521      PITTSBURG & MIDWAY COAL MINING CO.

01 0522      PITTSBURG & MIDWAY COAL MINING CO.

01 0523      PITTSBURG & MIDWAY COAL MINING CO.

01 0524      PITTSBURG & MIDWAY COAL MINING CO.

01 0598      PITTSBURG & MIDWAY COAL MINING CO.
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01 0795	PITTSBURG & MIDWAY COAL MINING CO.
01 0796	PITTSBURG & MIDWAY COAL MINING CO.
01 0808	PITTSBURG & MIDWAY COAL MINING CO.
01 0926	PITTSBURG & MIDWAY COAL MINING CO.
01 0348	PITTSBURGH MINING & SAFETY RESEARCH CENTER
01 0881	POLYRAC CORP.
01 0392	PRINCETON UNIV.
01 0929	PURDUE UNIV.
01 0930	PURDUE UNIV.
01 0931	PURDUE UNIV.
01 0848	PURVIN AND GERTZ, INC.
01 0372	RADIAN CORP.
01 0394	RADIAN CORP.
01 0410	RADIAN CORP.
01 0534	RADIAN CORP.
01 0671	RADIAN CORP.
01 0703	RADIAN CORP.
01 0787	RADIAN CORP.
01 0788	RADIAN CORP.
01 0896	RADIAN CORP.
01 0897	RADIAN CORP.
01 0936	RADIAN CORP.
01 0937	RADIAN CORP.
01 0941	RADIAN CORP.
01 0683	RESEARCH TRIANGLE INST.

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        01 0715      RESEARCH TRIANGLE INST.

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        01 0767      RESEARCH TRIANGLE INST.

        01 0768      RESEARCH TRIANGLE INST.

        01 0036      RESEARCH TRIANGLE INSTITUTE

        01 0935      RESEARCH TRIANGLE INSTITUTE

        01 0943      RESEARCH TRIANGLE INSTITUTE

        01 0945      RESEARCH TRIANGLE INSTITUTE

        01 0827      ROBERT S. KERR ERL

        01 0607      ROY F. WESTON, INC.

        01 0473      SANDIA LABS.

        01 0048      SCHROEDER & ASSOCIATES

        01 0049      SCHROEDER & ASSOCIATES

        01 0227      SCIENTIFIC RESEARCH INSTRUMENTS CORP.

        01 0178      SKEIST LABORATORIES, INC.

        01 0456      SKELLY & LOY

        01 0391      SOUTHEAST ENVIRONMENTAL RESEARCH LABORATORY

        01 0769      SOUTHERN RESEARCH INSTITUTE

        01 0766      SPOKANE MINING RESEARCH CENTER

        01 0346      SPOKANE MINING RESEARCH INST.

        01 0148      SSIE, INC.

        01 0933      STANDARD OIL

        01 0347      STANFORD RESEARCH INST

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     01 0388      STANFORD RESEARCH INST.

     01 0389      STANFORD RESEARCH INST.

     01 0492      STANFORD RESEARCH INST.

     01 0804      STANFORD RESEARCH INST.

     01 0890      STANFORD RESEARCH INST.

     01 0122      STEARNS-ROGER CORP.

     01 0123      STEARNS-ROGER CORP.

     01 0577      STONE & WEBSTER ENG.

     01 0302      STONE & WEBSTER ENGINEERING CORP.

     01 0908      SUN OIL CO.

     01 0360      SVERDRUP & PARCEL & ASSOCIATES

     01 0399      TEKNEKRON, INC.

     01 0526      TEXACO

     01 0822      TOMSK MEDICAL INSTITUTE

     01 0258      TRW

     01 0276      TRW

     01 0460      TRW

     01 0404      TRW ENERGY SYSTEMS

     01 0938      TRW INC.

     01 0852      TRW, INC.

     01 0485      TVA

     01 0721      TVA

     01 0751      TVA

     01 0792      TVA

     01 0960      TVA
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01 0724	TWIN CITIES METALLURGY RESEARCH CENTER
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